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# ''महाराष्ट्रात सार्वजनिक वितरण प्रणालीचा परिदश्य'

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सारांस भारतात शहरी भागातील ग्राहकांचे ग्राहरणा किमंतीपायुन संस्थाण करणासाती 1960 व्या मुमारास सार्वजिक वितरण व्यवस्था निर्माण करण्यात आली. अन्कांग्यांचे उत्पादन कभी झाले भरणजे किमंती बाहत असल आणी माववादीला चालना मिळत असते त्याराठी घायाची आयात करून तसेच देशात धान्य वसूती करून पुरेखा साठा निर्माण करणे आणि रसरत धान्य दुकागुत तो लोकांग उपराध्य करून रूपे ही व्यवस्था कीती गेती आहे. यूर्ट ही व्यवस्था रोजगार योजगायर काम करणाऱ्या मचुरांना धान्याच्या स्वरूपात काही प्रमाणात मचुरी देण्यासाठीरी वापरती गेती आहे.

1. प्रस्तावना : भारतात शहरी भागातील ग्राहकांचे वादत्या किमंतीपासुन संख्या करण्यासाठी 1900 व्या सुमारास सार्वजनिक वितरण व्यवस्था निर्माण करण्यात आती. अन्नद्रान्याचे उत्पादन कमी झाले म्हणके किमंती वादत असत आणि भाववादीला चालना मिळत असते. याचाठी धान्याची आयात करून तत्तेच देशात धान्य वृद्धाणै करून पुरेशा साठा निर्माण करणे आणि स्वरत्त धान्य दुकानातुन तो तोकांना चाउत्यक करून रहेण है व्यवस्था करिते गते आहे. पूर्व है व्यवस्था पंत्रणान र्याजनात्व कान करणान्या मजुराना धान्याच्या स्वरूपाना धान्याच्या स्वरूपान काशि प्रमाणात मजुरी देण्यासाठीही वापरती मेली आहे. सार्वजनिक वितरण व्यवस्थाती जीवनाय्यक बहुत्त पहला करणान्याती यंत्रणा जमारती मेलेली आहे. धान्यांच्या वावतीत सरकारं ठत्युन दिलेला वितरण व्यवस्थाती जीवनात्र व्यवस्थाती आणि क्रांच प्रसार प्रमाणा मजुरान प्रमाणा मजुरान प्रमाणान प्रमाणा प्रमाणा प्रमाणा कामारती किस करावयाची आणि क्षेत्र वृद्धा आहे तेथे विकारी व्यवस्था करावयाची है धोषण आवार्त गेले. सरकारताव्य पुरेश सार्व असतीत तेवा स्वत्य प्रमाण प्रमाणा प्रमाणा प्रमाण करावयाची है धोषण आवार्त गेले. सरकारताव्य प्रमाण सार्वणान असतीत तेवा स्वत्य पाच्य कुलाना पृत्य प्रमाण प्रमाण प्रमाण प्रमाण प्रमाण प्रमाण प्रमाण प्रमाण करते प्रमाण करते व्यवस्थ कृत्याला (क्राधापिक) दिली जात परतीत व्यवसीय्या संव्यध्यमाणे कृत्याला एकके (पुणिर) उत्युन दिली जातात सरकार जाहीर करते त्याप्रमाणे हिधापत्रिकेच उत्तरिक विकारीता वरतुंचा उत्तरिक प्रमाणात पुरव्या केला जाती. त्यस्य धान्य दुकाने गराज्यमाणे मंजुर केली जातात आणि शिधापत्रिका धारकांच्या सोतीप्रमाणे प्रत्येक दुकानात उत्तरीक शिधापत्रिका पुरवाण केला जाती.

2. अन्न सुरक्षिरतेषुन सार्वजिक विराज व्यवस्था:
1847 पासुन सर्वोक्षाते अन्न धान्य सुरक्षा निकरण हे आपनं राष्ट्रीय उद्दिरच्ट आहे. द्वार कोलचाही गोण्टीसाठी
1847 पासुन सर्वोक्षाठी अन्न धान्य सुरक्षा निकरण हे आपनं राष्ट्रीय उद्दिरच्ट आहे. द्वार कोलचाही गोण्टीसाठी
सर्वादित आहर विश्वासे रचक पाणे, आरोप्यायाची परिसर, प्राथमिक आरोप्य सुरिधा यांच्यापर्यंत पोहोचाणाया
शारियेक, आरोपिक आणि सामणिक मार्ग रचने अन्यसुष्ठा. सरकारच्या अनेक योजना असुरस् सुद्धा देशात कुरोपण मोठ्या
शारियेक, आरोपिक आणि सामणिक मार्ग रचने अस्तर्वासी महिलोगा याद्या पठका करता, उद्योग आणि आणि विकास दरात
आपन प्रमती करते असले तरी कुरोपण पुर करण्यात मात्र आपनी कामगिने फारची चारानी नाती.
राजींच मोधी पेयताल जीपनान, रापूर्ण रचकारणा कार्यक्रम आणि प्रदीय आणि आरोप आरोप अभियानाव्यरे या बांबीधी
काळजी घेतती जाते. रोजगार निर्मितीच्या अनेक योजना विशेषार, महात्मा गांधी राष्ट्रीय ग्राणीण रोजगार कार्यक्रमाणिक राजोन आणि उद्योगित स्वार्थन स्वार्थन स्वार्थन स्वार्थन स्वार्थन क्षार्थन स्वार्थन स्वार्थन स्वार्थन स्वार्थन स्वार्थन स्वार्थन स्वार्थन स्वर्थन स्वर्थन स्वार्थन स्वार्थन स्वर्थन स्वर्थन स्वार्थन स्वार्थन स्वार्थन स्वर्थन स्वर्यस्वर्थन स्वर्थन स्वर्यस्वर्थन स्वर्थन स्वर्थन स्वर्थन स्वर्यस्वर्थन स्वर्थन स्वर्थन स्वर्यस्वर्थन स्वर्थन स्वर्यस्वर्थन स्वर्थन स्वर्थन स्वर्थन स्वर्यस्वर्थन स्वर्थन स्वर्थन स्वर्यस्वर्थन स्वर्यस्वर्यस्वर्थन स्वर्यस्वर्थन स्वर्यस्वर्थन स्वर्थन स्वर्यस्वर्यस्वर्यस्वर्थन स्वर्यस्वर्यस्वर्थन स्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस्वर्यस

3. सार्वजनिक वितरण व्यवस्थेरे चद्देश:
किमंती स्थिर टेवणे, जीवनाश्यक वस्तुंच्या पुरवठयात कमतरता असल्यास शिधावाटप आणि समाजातील गरीब व गरज घटकांना मुलमृत तस्तु खात्रीने उपलब्ध करून देणे ही बहुउद्दीष्टये साध्य करण्यासाठी सार्वजनिक वितरण व्यवस्था या देशात स्थापन करण्यात आली. अन्त्रधान्याचे प्रापण, साठवणुक, वाहतुक आणि नियतन करणे बहारी कांबादची केंद्र

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This Paper Presents a Bibliometric analysis of the journal titled "Resonance-Journal of Science Education" for the period between 2011-2012. The analysis cover mainly the number of articles, authorship pattern, subject wise distribution of articles, average number of reference per articles, forms of documents cited, year wise distribution of cited journals etc. KEYWORDS:-

Bibliometrics, Authorship pattern, Source of Information, Geographical Distribution, Citation, Websites, Dissertations.

# INTRODUCTION:-

1- Resonance-Journal of Science Education: 1- Resonance-Journal of Science Education:
Resonance is a journal of science
education, published monthly by the Indian
Academy of Sciences, Bangalore, entering its
second decade of publication. The journal is
second decade of publication. The journal is
second decade of publication and teachers at
the undergraduate level, though some of the
enticles may go beyond this range. Resonance
shas a council of editors drawn from institutions
all over in India, with a Chief Editor Mr. K.L.
Sebastian and several Associate Editors G.K.
Printing Arga: Interdisciplinary Modern

RESONANCE-JOURNAL OF SCIENCE EDUCATION:

A BIBLIOMETRIC STUDY

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IN useful to students and teachers. Each issue of Resonance also highlights the contributions of Resonance also highlights the contributions of a chosen scientist, engineer or mathematician, with a portrait on the back cover and articles describing his or her life and work. In some cases, an article written by the scientist on a general theme is included as a Classic or a Reflections item.

2- Bibliometrics:

The bibliomatrics was first defined by Pritchard (1969) as "the application of mathematical and statistical methods to books and other media", it involves the analysis of a and other media", it involves the analysis of a

mathematical and statistical methods to books and other media." It involves the analysis of a set of publications characterized by bibliographic variables such as the author(s), the place of publication, the associated subject keywords, and the citations. The methods of bibliomatrics (and the closely related specialism of informatics scriptomatics (specialism of informatics scriptomatics). informetrics, scientometrics and webometrics informetrics, scientometrics and webometrics (Hood and Wilson 2001)) are used to investigate an increasing range of topics, including: the frequency distributions that characterize the use of words and phrases in a characterize the use of words and phrases in the increase the whole to which webbites characterize the use of words and phrases in text databases; the extent to which websites are linked together; longitudinal studies of the development of academic disciplines; and the extent to which individuals, research groups or institutions are published or cited in the literature (Bar-Ilan 2008; Borgman and Furner 2002; Cronin 1984; Garfield 1979; Thelwall, Vaughan and Björneborn 2005; Wilson 1999).

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# Corruption Free India: Dream or Reality?

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# ABSTRACT

In today's scenario to make corruption free India is just like to swim against the tide. Corruption is one of the most burning issues in India. How can it be tackled is the necessity of the tie. Why really corruption is ? Is it a thing that can be easily removed, shifted changed or annihilated completely. The answer would be surely not because unless we change our thinking, it is not possible to experience hassle free dealings in every department of public welfare.

If will not be useful to count the major seams experienced by the country but to judge wisely to them who are responsible to run a government in a democratic country at the time of election INTRODUCTION

Why really corruption is ? Who knows whether the dream of corruption free India likely to become a reality or not because corruption is not a recent ailment? It has been from a gas in the country like India. We witness the reality that corruption is right from a smaller unit of Government office up to the highest authority like Union ministry as well.

The Public welfare departments of any country are supposed to guarantee neat and easygoing transactions but we see that the same departments are the real originators of corruption. More over the politicians miss no change to accumulate as much as monitory benefits during their regime

# CHALLENGES BEFORE THE DREAM OR REALITY?

Does if really need lass or something a long list of rules in the form of a Lokpal bill? I would say that unless the change occurs in every ones mind, if is very difficult to make corruption free India. The ways government officers and other lower class officials are encouraging corruption is a sure road to degradation and financial collapse. To improve any country's economic condition, it is largely expected to make that country corruption free. The social progress of every individual also depends on the smooth and easy proceedings of the public welfare departments, but the deeply rooted corruption will never make this dream to come a reality.

The taxes and revenues collected from the common man of India is not utilized properly and the same revenue is personally used by the politician or ministers. Even the process of development through various scheme and policies becomes a suitable and efficient way of corruption for the concerned ministries. See the spectrum scam, fodder scam and many others on the higher level. And the minor projects and block and District level are never fructifying because of corruption. So I damn sure that corruption is nothing but selfishness of the so-called lower type of creatures in democratic system. The Channel this type of corruption is seen everywhere. It is becoming every difficult for the government to make India corruption free because we have gone so habitual of this cursed thing called corruption that even a petty work is carried in an absolute corrupted manner

# CHALLENGES IS THE KEY.

If corruption continues in the same way as it is today, then future of dram of corruption free Indian would never come true. So main functioning in any case should not be accepted if we really want

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SYNTHESIS, CHARACTERIZATION AND THERMO-LUMINESCENCE STUDIES OF CARBON DOPED ALUMINA PREPARED BY CONVENTIONAL METHOD

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ABSTRACT
The carbon doped alumina prepared by solution combustion (SCS) route followed by conventional caramic techniques. The namo-alumina prepared from SCS was used for the synthesis of 41,0,0,0 (1%, 2%, 3% carbon content). This adminish was striked at 1300°C to be the synthesis of 41,0,0,0 (1%, 2%, 3% carbon content). The distinct of 41, which leads to introduce oxygen scancines during the cryatia growth process. The oxygen vacanices combine with one or no electron formed F or F centres. The sample was translated with the radiation dose of 10 Gy (redation from "Sr ft). The measurement was taken at the heating rate of 2 KE in the temperature range of 395–73 K. The a-41,0,0 ceramics shows three TL glow peaks centered at 405, 493 and 610 K for 1% carbon content.

I. INTRODUCTION

According to the World Health Organization (WHO), more than 11 million people are diagnosed with cancer every year with an estimated 1.1 million people in 2005 for Europe alone [1, 2, 3]. The incidence of cancer is increasing with our increased lifespan and by the year 2000, the number of people diagnosed with cancer is estimated to be 16 million per year, an increase of about 50% relative to the present level. In Demmark (2007), roughly 30000 people are annually diagnosed with cancer and despite extensive research only about 45% of the cancer patients are successfully cured, i.e. survives for more than five years without further symptoms. Around 22% of diagnosed cancer patients are cured through surgery alone, 18% by radiation therapy alone or in combination with surgery and/or chemotherapy, and the remaining 5% by chemotherapy alone or in combination with surgery [4, 5, 6]. The objective of radiation therapy is the destruction of cancer rissue by means of radiation. Thermoluminescence (TL) and Optically Simunitated Luminescence (OSL) dostimetry, play an important role in the measurement of doses from external tradiation source, received by individuals working in radiation environment such as inclused reactors, industrial radiations play, space and diagnostic radiology applications. Conventionally, radiation monitoring has been carried out using Thermally Stimulated Luminescence (TSL) technique. Luminescence (TSL) technique.

aumanstence (13%) technique. Conventional technique control of making o-Al-O<sub>3</sub>: C phosphor, by growth of single crystals in reducing environment, has imitations of (a) limited control of parameters for incorporation of desired concentration of carbon into lattice and countrol over nature of defects as crystal growth occurs at a fixed temperature and growth rate etc. and (b) slow growth process using expensive equipment, that incresses cost of material. Compared with single crystal, ceramic materials have many advantages, they are easy to fibricate under melting point for a short period and low cost, and they can be manti-produced. Ceramics not only can be produced in large volumes but also can be heavily and homogeneously doped with active ions. They can also be made a militalyer or multiflunctional structure.

# 2. SYNTHESIS OF COMPOUND

2. SYNIHESIS OF COMPOUND
The starting materials for the synthesis were alumina powder and graphite powder. Specimens were fabricated by weighing the starting powders to achieve the C content of 1%, 2% and 3% by weight in the pure alumina powder. The mixed powders were weighed to the desired composition, ball milled together with distilled water and ZrO, ball for 24 h. The milled shurry was rised at 150° C. The pelleds with 6.5 mm in diameter and 5-7 mm in thickness were isostatically pressed at 200 MPa and sintered at 150°-1600° C for 15 h. In this process, acrobe is diffused into the crystalls, leading to creation of F centers. The beating was carried out in vacuum furnace with base vacuum of 10° Torr, with uniform heating and cooling rates of 20°C/min. All samples were irradiated with a 10 Gy gamma radiation (radiation from "5r), for characterization of the radio induced luminescent signal.

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COMBAT HERBS FOR CANCER: A REVIEW

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## ABSTRACT

The present review describes 38 herbs used in the treatment of cancer. These herbs are reported to be blood cancer, intestinal cancer, breast cancer, liver cancer, throat cancer etc. This review provides tracknowledge to research communities involved in cancer diagnosis and treatment.

Keywords: Herbs, Cancer treatment

Plants used for the treatment of many diseases since long time. It is found that people are living in vicinity of forest area; they have traditional knowledge to cure various types of diseases and ailments. Cancer is one of the diseases which cause death in developed as well as undeveloped countries. There are many types of therapies depends on the type of cancer viz. surgery, radiation therapy, immunotherapy, targeted therapy, demotherapy immunotherapy targeted therapy, stem cell transplant etc. Many institutes and hospitals are involved in diagnosis and treatment of cancer in the world.

Tribal medicine men, herbal plant practitioners and local people used plants for the treatment of cancer. In present review, attempt has made to find out plants used to cure cancer by tribals and non-tribals. During diterature survey, total 38 plant species found to be used for the treatment of cancer from different localities. Plants those are used for the treatment of cancer as traditional medicine are enumerated with their citation as

- rlos (L.) Corrêa reported fruit powder exhibited anti-cancerous properties.
- Agave americana L.

  Tribal people and medicinal practitioners of 'Chatara' block of Sonebhadara district of Uttar Pradesh used leaf to cure cancerous ulcers. The plant is locally known as Rambans (Singh et al., 2010).
- Annona squamosa L. Singh et al (2010) documented traditional knowledge on cancer treatment. Leaves and fruits are useful to cure tumor and cancer.
- Argemone mexicana L.

  Malasar tribals in Coimbtore district of Tamil Nadu used roots for cancer treatment (Venkataswamy et al,
- copa monnieri (L.) Wettst
- Bacopa moniferi (L.) Wettst.

  During the ethnobotanical survey of wild flora at G. Udaygiri forest in Kondhamal district of Eastern Ghats, Odisha, Shadangi et al (2012) reported leaves used for tumor and cancer.
- Ballospermum solanifolium (Burm.) Suresh
  People of Santor and Mount Abu (Shirohi district of Rajastan) applied clarified butter on affected area and tied leaves to reduce node (cancer) and node subsides (Negi et al., 2012). Boerhavia diffusa L
  Negi et al., 2012 documented red flowers variant in treatment of blood cancer from Santor and Mount Abu
- region of Shirohi district, Rajastan. Rahul (2013) reported whole plant used in cancer treatment by rural people of Taindol village of Jhasi district (Bundelkhand, Uttar Pradesh).
- Bryophyllum pinnatum (Lam.) Oken
  Five to ten drops of extract of aerial plant used to cure blood cancer (Hutke et al. 2012).
- abis sativa L.
- Rahul (2013) documented flow (Bundelkhand, Uttar Pradesh). umented flower and fruits for treatment of cancer from Taindol village of Jhasi district
- Carissa carandas L Ethnic group of Thottianaickans of Semmalai hills of Tamil Nadu taken root bark paste with goat meat (Ganesan et al, 2006). (Gane

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# Virtual Intelligent SoftLab Apps

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Abstract - The scope of this paper includes development and implementation of virtual lab on mobile. Virtual Lab basically designs for Electronics, Computer Science and Engineering students, faculties or researchers. Virtual laboratories are becoming popular in the education. The screen shows the Characteristics of devices shows related outputs. There is a facility for change of juput values using virtual instruments and observed the outputs with virtual Instrument. The virtual experiment described here will help students to perform it any time anywhere. Mobile phones are used as a font end for GUI. By using java API's application developers are able to create virtual laboratories for android phones.

Keywords – Virtual, VIS Model, Mobile, Experiments, Mobile Applications.

### I. INTRODUCTION

### Origin of the research problem:

Science subjects always have a component of practical. In subject like Physics and Electronics students have to perform a large number of experiments in an academic year. Many times students do not get time to repeat experiments which they have performed during the session. Also many of the laboratories lack in resources to perform experiments in which sophisticated instruments are required. Therefore to provide access to laboratory experiments, anytime anywhere, concept of virtual laboratory is being developed. This virtual laboratory can cater to students at under graduate (UG) and post graduate (PG) levels. Some software's like MatLab and LabView are available for simulation of experiments and for other purposes. However, these software's are generally available only in Institutes Laboratories and student can use them only during college hours. It is therefore decided to develop software for performing individual experiments virtually on mobile screen. In this laboratory an attempt has been made to develop software for electronics experiments from basic to advance level.

For students, Experiments of Physics and Electronics with devices is very difficult subject to understand. The demonstration of practical gives little idea to student about the subject teaching and learning of experiments has to be done during the practical session. Actual devices are costly and require a storage area and maintains. Students cannot repeat the work due to lack of devices. In this model we construct the SoftLab by simulation technique. The simulation implemented using computer programming language. This model gives live experiment using virtual SoftLab. The role of virtual laboratories in education is helping researcher/student to improve their quality and capability. The Virtual Laboratory is a platform where user performs their experiment using scientific devices. SoftLab can use in many sophisticated laboratories and reduce the use of physical devices. It provides experiments facility with scientific devices. SoftLab is based on the simulations with application programs. The practical and theoretically concept easily executed. SoftLab fully visualized so that we can easily compute the desire

outputs. Virtual laboratory create virtual interface and virtual experiments on SoftLab platform.

The Virtual Lab is an application program providing virtual access to a variety of sophisticated scientific instruments. Animations Help Students to design system, observed reading and construct new concepts with SoftLab. Students can interact with different electronics

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Multidisciplinary Research Journal (GIMHg) with 10011 2394-0410 International Impact Factor 3.325 [UGC Approved Journal St. No.48455

Advantages and Disadvantages of GST for Common Man

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Asternate. This space is an analysis of what the impact and features of GST/gradit survive Text, will be no sading holium. The Secretic, we pay sortions to a fast list like Direct and holium Time. SST is a syrupe rax on the supply of gradit and interesting the holium to the manifestories to the analysis of the subsequent range.

ONE is now consigned all over-the worked and countries are using if for sides to a system. This paper will from one how her list and countries are using if for sides to a system. This paper will from one how the SST is now consistent of some first of the growth of third and will also contribute the system. The state of the

one indirect tax for the whole nation, which will make India one unified our The GST intentity to substance meet indirect taxes under a single transfer unified common market. The GST intentity to substance meet indirect taxes under a single transfer unified common market. The GST is a single has on the supply of goods and services, right from the manifecturer to the consumer. Credits of input taxes pull at each stages will be available in the subsequent stages of value addition, which makes GST essentially a tax only on value addition at each stage. The final consumer makes GST essentially a tax only on value addition at each stage. The final consumer provides stages. This is expected to help broaden the tax best, increases tax compliance, and reduce economic disterilious agained by intenditate variations in taxes.

Why GST has been proposed?

# GST has been proposed?

Why GST has been proposed?

Our Constitution empowers the Central Government to lavy excise duty on manufacturing and service tax on the supply of services. Further, it empowers the State Governments to lavy make tax or value added tax (VAT) on the sale of goods. This exclusive division of fiscal powers has led to a multiplicity of inclined taxes in the country. In addition, contral sales tax (CST) is levied on inter-State sale of goods by the Central Government, but collected and retained by the exporting States. Further, many States levy an entry tax on the entry of goods is local areas.

1. Conferring simultaneous power upon Periament and the State Legislanues to make laws governing goods and services too.

2. Subturning of various Central indirect taxes and levies such as Central Excise Duty, Additional Excise Duty, and Special Additional Duty of Customs.

2. Subturning of State Value Added Tax/Sales Tax, Entertainment Tax (other than the tax levied by the local bodies), Central Sales Tax, Entertainment Tax (other than the tax levied by the local bodies), Central Sales Tax, Entertainment Tax (other than the tax levied by the local bodies), Central Sales Tax, Entertainment Tax (other than the tax levied by the local and sales).

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31 5 Jan 20 18





4-Methyl-2-(4-substituted phenyl)quinoline Derivative

P.K. Ransoupage<sup>1,7</sup>, F. Isan<sup>2</sup> and S.S. Chermana

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rived: 25 May 2017:

Accepted: 28 July 2017;

Quantitative structure articity relationship (GSAR) studies of some 4-methyl-2-(4-substaned phosphysicalize derivatives were carried, was to determine their predicted biological activities. Numbers of descriptors were tested to algebra a quantitative constants network effortly and structural funtares using maining set tool lost set. Significant correlation was observed between solvisies and descriptors. The metabor ware inappropriated on the books of flores repression amplies. Experimental enhanced and experimental activities and descriptors. The internal ware inappropriate to the construction of the set of the set

ords: Quantitative structure activity relationship, Quineline derivatives, Biological activity.

# INTRODUCTION

INTRODUCTION

Quinoline and its derivatives are the important scafffold of biologically active compounds present in nature [1-6]. Many between, the contrast contrast

a molecule as the drug, which itself is a great problem oping countries.

Quantitative structure activity relationships (QSARs) signific

Outrituthe structure activity relationships (QSARG) significations produced antificial method which correlates the activity of the consequential statistical method which correlates the activity of the consequential to obtain the significant of the consequential to obtain the consequential to obtain the composition of the consequential to obtain the composition of the consequential to obtain the consequential consequential to obtain the consequential conference of the consequential composition of the consequential conference of the consequential composition of the consequential conseque

# EXPERIMENTAL.



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Open Access

# Induction of Mutation by Gamma Irradiation in Brassica comprestris L.

9

# Awaley Mundeep G

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### ABSTRACT

ABSTRACT

Pure line seeds of local variety of Brassica compestris L. were used in the present study. The certified, healthy and dry seeds [10% moisture content) of these variety were procured from Krishi Viggyan Kendra, Nagpur. This variety well adapted to the agro climatic conditions. The seed of mustard were treated with different doses/treatment of physical mutagens used were gamma rays. Uniform healthy dry seeds [10% moisture content) of the mustard were exposed to different doses of gamma rays [1007, 2007, 3007, 4007, 5007, 6007, 7007, 8007, 9007 and 10007) with a dose rate of 20Kr/20min, from 60 cobalt source at the Department of chemistry, Rashtrasant Tukadoji Maharaji Nagpur University, Nagpur. The mutagenic effect studied on M parameters included seed germination, Seedling height, plant survival, and various Quantitative traits. Seed germination, seedling growth, plant survival Increased with an increase in mutagenic treatment. Gamma rays proved to be most effective in causing maximum biological damage. Studies on various quantitative parameters showed the inhibitory effect of Lower treatments and stimulatory effect of ligher or intermediate of Lower treatments and stimulatory effect of Higher or intermediate treatments in M1 generation. The mean values for various quantitative trails Increased at higher treatments, but Inhibitory effects were noticed at some lower treatments. A significant amount of variability was induced in the treated populations as compared to Control. 70 Gy. 90Gy and 100 Gy treatments of gamma irradiation was found to be most effective.

Key words: Brassica Compenstris L., Gamma rays, Physical mutagen,

### INTRODUCTION

The BRASSICACEAE or Cruciferae (also known as Mustered Family) is a large angiosperm (Flowering Plant) dioct family of Plant kingdom which belongs to the order Brassicales and has been divided into 10-19 tribes with a total of 338-360 genera and 3,709 species.

National Seminar on Modern Perspectives in Life Sciences (MPLS-2018)

Naveen Shodh Sánsar (An International Refereed! Peer Review Research Journal) (U.G.C. Jr. No. 64728) ISSN 2320-8767, E-ISSN 2394-3793, Impact Factor - 5.110 (2017) April 2018 E-Journal, Vol. III

# Impact of Demonetization on Indian Banking Sector

## Pravinkumar M. Lonare\*

Abstract - India has carried out demonetizationexercises twice before, in 1946 and 1978. In Jan 1978 episode, currency worth INR 1.46 bn (1.7% of total notes incirculation was demonetized. Of this INR 1.0 bn (or 68%) was tendered back. In 1978 the value of demonetizationwas very small (only 0.1% of GDP). However, the 2016 demonetization effort covers 66% of the total currency nicrulation (11% of GDP). On 8th November 2016 right at 8.15 PM Prime Mitter of India Mr. Narendra Modrian his unscheduled television address to the nation announced that the currency notes of 500 and 1000 denomination with not be a legal tender money from midright. Government took this step of demonetizing the currency as a tool to fight against black money and corruption in Indian Economy.

Keywords - demonetization, cashless fransactions, credit, tax evasion etc.

the currency as a tool to fight against black money and cor Keywords - demonetization, cashless transactions, credit Introduction - Lastly, demonetization has been tried as a tool to modernize a cash-dependent developing economy and to combat corruption and crime (counterfelling, tax evasion). In 2016, the Indian government decided to demonetize the 500- and 1000-rupee notes, the two biggest denominations in its currency system; these notes accounted for 86 percent of the country's circulating cash. With little warming, India's Prime Minister Narendra Modi announced to the citizenry on Nov. 8, 2016, that those notes were worthless, effective immediately – and they had until the end of the year to deposit or exchange them for newly introduced 2000 rupee and 500 rupee bills. Chaos ensued in the cash-dependent economy (some 78 percent of all Indian customer transactions are in cash), as long, snaking lines formed outside ATMs and banks, which had to shut down for a day. The new rupee notes have different specifications, including size and thickness, requiring re-calibration of ATMs cont §60 percent of the country's 200,000 ATMs were operational. Even those dispensing bils of lower denominations faced shortages. The government's restriction on daily withdrawal amounts added to the misery, though a waiver on transaction fees did help a bit. Small businesses and households struosoled to find cash

added to the misery, though a waiver on transaction rees up help a bit.

Small businesses and households struggled to find cash and reports of daily wage workers not receiving their dues surfaced. The rupee fell sharply against the dollar.

The government's goal (and rationale for the abrupt announcement) was to combat India's thriving underground economy on several fronts: eradicate counterfel currency, fight tax evasion (only 1 percent of the population pays taxes), eliminate black money gained from money taundering and terrorist financing activities, and to promote a cashless economy individuals and entities with huge sums of black money gotten from parallel cash systems were forced to take their large-denomination notes to a

L tax evasion etc.

bank, which was by law required to acquire tax information on them. If the owner could not provide proof of making any tax payments on the cash, a penalty of 200 percent of the owed amount was imposed.

History of Demonetization
I. Rs. 1,000 and higher denomination notes were first demonetized in January 1946 and again in 1978.

The highest denomination note ever printed by the Reserve Bank of India was the Rs 10,000 note in 1938 and again in 1954.

But these notes were demonetized in January 1946 and again in January 1978, according to RBI data.

Rs. 1,000 and Rs. 10,000 bank notes were in circulation prior to January 1946.

Higher denomination banknotes of Rs. 1,000, Rs. 5,000 and Rs. 10,000 were reintroduced in 1954 and all of them were demonetized in January 1978.

The Rs. 1,000 note made a comeback in November 2000.

- Rs 500 note came into circulation in October 1987. However, this is the first time that Rs 2,000 currency
- However, this is the first time that Rs 2,000 currency note is being introduced.
   Bank notes in Ashoka Pillar watermark series in Rs 10 denomination were issued between 1967 and 1992, Rs 20 in 1972 and 1975, Rs 50 in 1975 and 1981 and Rs 100 between 1967-1979.
   The banknotes issued during this period contained the symbols representing science and technology, progress and orientation to Indian art forms.

  In the year 1980, the legend Satyameva Jayate—"truth alone shall prevail"— was incorporated under the national emblem for the first time.

  In Cotober 1987, Rs 500 banknote was introduced with the portrail of Mahatma Gandhi and Ashoka Pillar watermark.

30 April Daig

11 12



IJPPRJRNAL OF PHARMACY & PHARMACEUTICAL RESEARCH
An official Publication of Human Journals



Research Article April 2018 Vol.:12. Issue:1 All rights are reserved by Nakade J G et al.

# Macro Fungal Diversity of *Agaricomycetes* from Amagon Tahsil, Gondia District (M.S.) India



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27 March 2018 Accepted: 03 April 2018 Published: 30 April 2018

Keywords: Agaricomycetes, Macrofungal diversity, Amgaon Tahsil (Gondia district)

The present study reports total 25 Agaricomycetes fungal taxa collected from Amgaon Tahsil which spread over 13 families and 18 genera. Taxa belonging to Geastraceae and Polyporaceae (5 species each) are dominantly distributed.



INTERNATIONAL JOURNAL OF CURRENT RESEARCH

(55)

International Journal of Current Besoarch Vol. 18, Issue, 66, pp.68416-68418, April, 2018

# RESEARCH ARTICLE

RSF-III NOVEL POLYMER: SYNTHESIS, CHARCTERIZATION AND BIOLOGICAL ACTIVITY STUDIES

L'Rahangdale, P. K., 2Jaiswal, M. R., 2Shende, S. S. and 4Dhote, P.R.

\*\*Department of Chemistry, Bhawabhuti College, Amgoon-441 902, India \*\*Department of Chemistry, Santaj Gollege, Nagpur-4400 15, India \*\*Department of Chemistry, N.P.W Gollege, Lakhani-441 1804, India \*\*Manoharbhai Patel Institute of Engineering and Technology, Goodia-441614, India \*\*Manoharbhai Patel Institute of Engineering and Technology, Goodia-441614, India

# ARTICLE INFO

Article History: Secreted 27th January, 2018 Received in civinal Scient 18th February, 2018

# ABSTRACT

ABSTRACT

Honerstein [10], Semicontesire [5] and Fermaldelpde [17] were taken as starting nuteronic for Synthesis of new simplexer which has been abbreviated as "ESI-III", add comboted condensation phylocaccious control was enforced for the synthesis. This temployme was con-solous achievance for the product of the temployme. This temployme was re-solous achievance for most possible chemical structure has been elucidated for the near of polymer. The anarber average resolvants weight of this polymer has been destinated with the help of condensations for the production of the polymer has been destinated with the help of condensations for the production of the final constrained for startless like a Cost, C. additions, S. awares and P. arraphoso. The do see final constrained are found to possess very good biological activities for above quoted relationsplained.

Copyright © 2015. Entrangulate et al. This is an open occuss criticle alsorbised wider the Creative Commons Attribution License, which per-destribution, and expressed too in very menture, provided the original wirk is properly cloud.

Ottober: Rahaugiale, P. K., Jairwel, M. R., Shrade, S. S. and Diade, P.R. 2018. "EST-III Nevel polymer: Synthesis, characteristics and be activity dadies", between Jaurud of Curron Research, 10, (01), 6811-68110.

# INTRODUCTION

INTRODUCTION

Growing sistence in designing and synthesis of novel polymers and organic scapelymers/necopolymers is due to their special properties and principles applications in soppisar, water water teatments, organic synthesis, hydrorentalitys, catalysis, antimicrobial, settificated, luminoconese and neoways of treat elements (Trius and Zaletas, 2001; Kalepaps and 2001; Alexandra (Trius and Saletas, 2001; Kalepaps and 1900; Alexandra (Trius and Saletas, 2001; Alexandra (Trius and Saleta

responding notion: Rahangdale, F. K., remote of Chemistry, Bhanabhati College, Acquain-411 902, India.

Home it developed special interest mode to water water assistent and artification of any activation as well (Charweth, 1963). Scores and Minist, 1991; Baue and Dec. 1917; Cell. 1963. Scores and Minist, 1991; Baue and Dec. 1917; Cell. 1963; Rahunghiet et al., 2007; Ganusle et al., 2003; Ganusle et al., 2004; Ganusle et al., 2005; Ganusle et al., 2006; Finally, biological envelopment and severagation have been studied after heavested in the autobal envelopment of the autobal

All chemicals used were of analytical grade. Principle sta-materials viz. Resorcinel, Senicarbazine and Formalde (17%) were procured from Merck, Italia, Double dis-water was used for all the experiments. Non agazeous soli-like DMF and DMSO were double distilled prior to their derivatives.





www.ijppr.humanjournals.com

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# Impact of GST on Indian Banking Sector

### Pravinkumar M. Lonare®

Abstract - The introduction of GST would be a significant step in the reform of indirect taxation in India. Amalgamating several central and state taxes into a single tax would militigate cascading or double taxation, facilitating common autonal market. It is expected that service sector with laver major impact of GST than other sector. The banking sector is one of the largest services sector in India. Banking Sector plays a very important role in monetary policies of country overall frame work and the business dynamics of this sector will largely differs from other sectors. In this paper attempt has been made to know what are issues and challenges faced by Indian banking sector after implementation of GST.

Keywords - Taxation, Goods and Service Tax (GST), Indirect tax, Banking Sector, Government Policy.

of GST.

Reywords - Taxalion, Goods and Service Tax (GST) is an indirect tax. Banking Sector, Covernment Policy.

Introduction - Goods and Services Tax (GST) is an indirect tax (consumption tax) used in India on the supply of goods and services. It is a comprehensive, multistage, destination-based tax: comprehensive because it has subsumed aliments at the indirect taxes except a few attacks. Multi-staged as it is, the GST is imposed at every stage in the production process, but is meant to be refunded stage in the production process, but is meant to be refunded stage in the production process, but is meant to be refunded stage in the production process, but is meant to be refunded stage in the production process, but is meant to be refunded stage in the production process, but is meant to be refunded stage in the production process, but is meant to be refunded stage in the production process, but is meant to be refunded stage in the production process, but is meant to be refunded stage in the production process. But is made to be refunded stage in the production process, but is made to be refunded stage in the production process. But is made to be refunded stage in the production process, but is made to be refunded stage in the production process. But is made to be refunded stage in the production of the constitution of the Constitution of India by the Indian povernment. The CST replaced a visiting multiple taxes is levied by the control and state government. The CST replaced a visiting multiple taxes is levied by the control and state government. The CST replaced a visiting multiple taxes is levied by the control and state government. The CST replaced existing multiple taxes is levied by the control and state government. The CST replaced existing multiple taxes is levied by the control and state government. The CST replaced a visiting multiple taxes is levied by the control and state government.

The tax came into effect from 1.July 2017 through the implementation of the One Hundred and First Amendment of the

\*Assistant Professor (Economics) Bhawabhuti Mahavidyalaya, Amgaon, Distt. Gondia (Maharashtra) INDIA

# **Session 2018-19**

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THE HORIZON A BI-ANNUAL

INTERDISCIPLINARY RESEARCH

JOURNAL- AN ANALYSIS OF

CITATION PATTERN

Mr.ArvindA.Bhagat

Librarian,

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Librarian

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HORIZON aBi-Annual Interdisciplinary Research Journal. The authorship pattern of thecitations shows that more than 75.94% per cent

contributions are single-authored and about 28 per cent resulted through the collaboration of

five or more authors. Of the citations 52.74%

per cent pertain to bookarticles. Of the citing

articles 39.21%contributed by Indian authors,.
Of the total citations thereno author self-

citations and journal self-citations.

Keywords:-The Horizon ,A Bi-Annual

Interdisciplinary Research Journal, Citation Analysis, Interdisciplinary Research Journal

Introduction:-Interdisciplinary
The Horizon, a biannual interdisciplinary
Research Journal aims at providing a healthy

The study is based on 510 citations appended to 75 research articles pertaining to January toJune 2012 issues of vol. 3 of THE

MAH MUL (3851/2012

ISSN: 2319 9318

Ucc Approved Vidyawarta April To June 2018 | 044 | 155N: 2319 9318

Vidyawarta Issue-26, Vol-01 | 044 | 155N: 2319 9318

The journal is an academic initiative by The Universal Scholars' Association, Nagpur declicate to providea knowledge-based platform and publish contemporary issue of vital

importance. Objectives: The objectives of the study are to find out:

- Authorship pattern of citation
- · Types and distribution of citations according to forms
- · Percentage of Indian citations to
- foreign citations · Percentage of author self citations to
- total citations
- . Percentage of journal self citations to total citations

# Scope:-

The study covers 75 research articles published in the January to June 2012 issues of volume 3 of The HORIZON A Bi-Annual Interdisciplinary Research Journal These research articles included \$10 cited items, citations, it is to be noted that THEHORIZON allows the authors to use up to a maximum of citations for each research article. The study indicates that on average a research article included about 7 citations.

Methodology:-The data was compiled manually from the journal articles employing systematic sampling method. Foreach citation, the following data was recorded: (i) number of author(s), (ii) type of document, (iii) origin of the docume journal (iv) whether author self-citation, and (v)

whether journal self-citation. Results and Analysis:-

# Authorship pattern of citations

aBi-Annual THE HORIZON Interdisciplinary Research Journal allows a maximum of six authors' names in each citation. For citations having more than six authors the first six names are given followed by et al. This practice definitely helps to save some space but

forum for scholarly views on board socio-practice definitely helps to save some space but Christian: Interdisciplinary Multilingual Refereed Journal

15th Aug 2019



Available online on 15.08,2019 at http://jdeltonline.info

**Journal of Drug Delivery and Therapeutics** 



JDDT

Research Article

Microwave Assisted Synthesis, Characterization and Anti-Tubercular Activity of 4-Quinolylhydrazone

Bisen Chandrakant V. 1, \* Patle M. R. 1, Rahangdale P.K. 1

<sup>1</sup> D. B. Science College, Goodia, India

\* Sharbbet: Naharidyelaya, Angeon, India



Binen CV, Parle MR, Rahangdale PK, Microwan Quinolythydrannen, journal of Brug Delivery a http://dx.doi.org/10.22270/jddx.v944-A.3425 \*Address for Correct



ISSN: 2250-1177





# XRD, FTIR, TGA, EDX INVESTIGATIONS OF L-LEUCINE DOPED IN AMMONIUM DIHYDROGEN PHOSPHATE (ADP)

DOPED IN AMMONIUM DHIYDDROGEN PHOSPHATE (ADP SINGLE CRYSTAL)

B. A Shingade<sup>®</sup>, R. M. Belekar<sup>®</sup>, P. S. Sawath<sup>®</sup>, K. G. Revatkar<sup>®</sup>

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Department of Physics, D. A mbediact Oliega, Deckathboomi, Nagur, India. 440010

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Abstract
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ISSN (PRINT): 2393-8374, (ONLINE): 2394-0697, VOLUME-6, ISSUE-1, 2019

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# NEED AND IMPORTANCE OF AUTOMATION IN ACADEMIC LIBRARY

MISS.,PRADNYA A, BHAGAT

Librarian BhawabhutiMahavidyalayu Amgaon,Distt;- Gondia (Ms) 441902

MR.ARVINDA.BHAGAT.

M.B.Patel Arts & Commerce College. Salekasa , Distt-Gondia (Ms)441916

Abstruct:

This paper focus on need of automaton in academic library & changing scenario of latery management. Due to enormous changes in information technology. Automation changes library operation & its functionality. Due to automation library activity become more fast & accurate. This paper also discuss about software peakages which use in academic library.

Keyawuk: Automation Area Of Automation, History Of Automation Information Technology.

Keywends: Automation Area Of Automation, History Of Automation Information Technology, Classification & Cataloguing Introduced The Rapid Change in Information Technology, Everyrers of library sector has charge Three told & need of reader may continuously changes. The origin of information technology is changed the performance and service pattern of academic library, due to information technology for Traditional library transformed in to automated library. But lack funding academic library have been serving us hybrid library.

Automation—The reservice of the control of t

nation-The word Automation derived from Greekword Automose means which has power of neous motion or self-movement. The term automation was first introduced by D.S.Harter

In 1936.
Library autoration is needed to improve over collection to have an effective control over the exist operation, to improve the existing services as well as to introduce new services, to avoid duplication of work to share the resources among various academic library

Definition:

According To Encyclopedia Of Library and Information Science "Automation is the technology concerned with the design and development of process and system that minimize the necessity of human intervention in operation." (Kert 1977)

According To octroff English dictionary automation is "application of automatic control to any branch of industry or science by extension, the use of electronic or mechanical devices to replace human Arra of automation in academic library:

The num activities & services of library automation as below: All routine works & services of I. Data Entry

academic library can be automated through library automatic 1, Data Entry 2, Classification& Catalogoing 3, Circulation Control 3, Circulation Control 5, Documentation & Allied Service 6.Information Retrieval.

www.scholarsimpact.com ■ scholarsimpact@yahoo.com ■ UGC Approved Journal No. 41129

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१५. भारतीय शेतीचा इतिहास

डॉ. प्रविश म, बंद्रमिरीवार

सहाव्यक प्रच्यापक (वाणिज्य विभाग) फाणूनि बहाविद्यालम्, आगनाम, जि. गोदिया (च. रा.).

भारतात होती आणि होतकरी यांचा इतिहास नवधामाण बुणाप्यसून (इसनीसनपूर्व ३६००) सुक होतो. आमाच्या पाचीन शंरकृतीमध्ये समृष्ट रोतीये क्रेक पुरावे सामकतात. पाराशर, गर्न, वृहद् गर्ग, कस्यप, विष्णुगुन्दं, मरुक्यान, बादरायन, विश्वकर्मा, मारद्याज, कपिला बालारज्या खनील जाणि जनुद शास्त्रींची शेतीची बंद दारे उफ़ठली. मारतीय शेतीचे १. स्थानिक परिस्थितीशी सुसंगत अशा काटक विवानाचा वापर 2. मातीचे स्वास्थ टिकपून देवणे आणि 3. शेतीसील जैनविकियता (विशेषतः पिकांची) असे तीन मुख्य आधार होते. नुस्तीम राजयटीच्या होती स्वातंत्र अवाधित होते. इंग्ल राजयटीत गाउ शैतक-वांच्या स्थायतोवर बंधने जाती. प्रथम ग्रामस्थाचा त्यांच्या नामातील जंगलावरंच्या स्थानिक व्यवस्थापनामा अधिकार हिरादून भेग्यास आसा. भारताला स्थातच्य विकाल्यानंतर 'हरिराकातिच्या वंत्रश्रानामध्ये जासा चरमादन देशारी चन्नत विदाने, रासामनिक वर्त व रासामनिक बॉन्टकनाशने अवा जिस्की या शमावेश होता. शंकरीकरणाच्या तंत्राच्या सहाय्याने विकासी हेक्टरी जास्त प्रत्यादन देशारी संकरित विवाणे तयार करण्यात आली. जुनकीय अभिकीमाधिकी या नव्या विद्याशाखेच्या आधारे बन्याय कलीवांच्या पेशीमधील जनुकीय श्वनंची माहिती जनुकीय आरेखनाद्वारे (genetic mapping) आता उपलब्ध होळ लागली आहे. या माहितीमा उपयोग करून एखाद्या सजीवातील कोणत्या जनुकाहारे त्या सजीवातील कोगता गुणवर्ग निवंत्रित होतो हे कब् जागते आहे. भारतीय शेतीची जाज जी कुष्टितानस्था जाजी आहे. त्यातून सुटका होण्यासाठी आजानाचा सामना करावा सामेल. वा करिया जनेक उपायमीजना करण्याचे सुचविते आहे.

मानवाच्या सम्मतेचा इतिहास मूची संस्कृतीच्या उदयाणासून आरंग होतो. जंगलात पशुदूत्य जीवन जगणारा मानव इक्षुप्रकृ विकतियाः होत गेला. या प्रक्रियेला मानवाची उत्करती जले गामानियान विकाले गुरुवातीची रानटी अवस्था, या अवस्थेत फडे कंदनुने झाड्याला खाकन माणूस आपती गुजरान करीत असे. प्राच्याप्रमाणे हिंदत्र स्वरूपाचे जनने सनदाच्या वाटवाला आसे होते. तो इतर प्राच्याची शिकार करून कार्य गांस खात असे. या अवस्थेचे वर्णन मानदी इतिहासात मानदाची शिकारी अवस्था असे केले जाते. इतर प्राप्यापेक्षा अधिक लामलेली निसर्गदरत बुध्दीमत्ता आणि सारासार विवेक यामुळे गानव व मानवी समाज सत्तव बदलक गेला. शिकारी अवस्थेनंतर वो प्रमुपालन अवस्थेग आला. पशुचे मांगोपन कचन त्याचा छक्ष्मोम च्यायला लागला. परमुख्या चाऱ्याची ध्यरस्था करतांना त्याला भटकंती करावी लागली. त्या अवस्थेचे वर्णन इतिहासकारांनी मानवाची मटकी अवस्था असे केले आहे. टोजया करून शहरान्या मा मानवीरामुद्याने नैसर्गिक अनविभागणीया जवलंब केला. रुजी-पुरुष यांच्यातील नैसर्गिक करकातून रजीवजी

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# 11. Business on the Internet

Dr. Pravin M. Chandragiriwar vabbuti Malasvidhalaya, Amgson, Assistant Professor, Departme of Commerce, B Dist. Gordia (M.S.).

# Abstract

Examines current and planned practices and the major benefits of communication plensive information system applications. The Internet, once a government-controlled, tax-supported endeavor, is no longer restricted to noncommercial traffic. Contends that business use of the internet has grown rapidly over the last several years, yet information technology managers still struggle to evaluate the contribution of this new technology in their organizations. Surveys were sent to a random selection of 500 companies to analyze current use and impact of the laternet in a business setting. Reports on the variety of expected values to be derived from use of the Internet indicated by respondents.

Keywords: Internet, information technology, business, goods, service, customer Introduction

Information Technology (IT) has grown and evolved over the last 50 years; you cannot think and plan a project, bissiness or other imitative without the usage of this technology. When we say information Technology that means not only personal computers or amart phones, but also modern machinery in factories, automotive industry, aviation industry, various household appliances etc., In one way or another this has not only facilitated our daily lives but it has also reduced cost and time in general. Research shows that a quarter of workers in the United States of America work from home for a considerable time of the year, while, another sparter work "mobile" - on the move. This reflects the great opportunities that information Technology and the Internet provide as an important tool for implementation in organizations and public institutions. Economists highly appreciate the importance of Information Technology in business growth, lowering costs and promoting the best products. During recent years, globalization and computerization have redefined the industry, politics, culture, and social order. Globalization refers to ultimately integrate economic and cultural institutions. This integration occurs as a result of the use of information technology. The technological revolution presupposes global computerized networks and the free movement of goods, information, and peoples across national boundaries. Hence, the internet and global computer networks make possible

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# 12. Role of ICT in Academic Libraries

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Librarian, Bhawbhuti Mahavidyalaya Amgaon, Distt-Gondia, R.T.M.N.Uni.Nagpur.

### Abstract

In present day effectiveness of a library services is depend upon the information & nication technology . This paper focus on involvement of information & communication schnology in libraries which classify old & new generation technology. This paper discusses various information & communication technology which used to offer & used in libraries, also study why information & communication technology is needed, how it affect libraries services.

Keywords:- Information , Communication , Technology, Libraries, Network

### Introduction

The term Information & Communication Technology has been used by academic technologies since the 1980s. ICT means the use and application of computer, nmunication and microelectronics in the acquisition, storage, retrieval, transfer and dissemination of information

ICT defines as types of technology that are used specifically for communication .it is like information technology focuses more on technologies that deal with communication, like internet and wireless networks among other things. (YOUNG ,2012).

The Set Of Activities Which Facilitate By Electronic Means The Processing, Transmission And Display Of Information (RODRIGUEZ And WILSON 2000)

# ICT: Information Communication Technology

KT is new evolutionary phase of library science development which brought tremendous langes in library and information science Application of ICT in library science has change Norking of library professionals. Using of ICT offered access vast flow of information & heledge resources.ICT include both actwork & applications network include fixed ,wireless & smelline communication & applications include internet database management system & nultimedia tools.

ional Conference on "Recent Trends in Mathematical Modeling, Simulation Methods, Computations, and Physical Sciences"

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### Approximate value of a irrational number using Duplex Saniav M. Deshpande<sup>1</sup>, Rishikumar K. Agrawal <sup>2</sup>

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### ABSTRACT

Swami Bharthi Krshnatrthji Maharaj is the author of book Vedic Mathematics. This book was first published in1965. This book contains many mathematical calculations in various fields of mathematics. In this book Swamiji explained by coating examples in each chapter. All the formulas in Vedic Mathematics have a logical mathematical application. Some important most useful chapters in Vedic Mathematics are Division by Paravartya method or Dwajank method, recurring decimals, Complex Mergers, Partial Fractions etc. In this paper we will discuss the method of straight squaring (to obtain square of a number) by creating duplex (Dwandwa Yoga). This method is very powerful to obtain the square of a number. In the same chapter Swamiji explained that the reverse process of finding a square of a number (By creating duplex) gives us square root of a number. Swamiji developed this concept of duplex (Dwandwa Yoga) from algebra. In the expansion of (ax + b)2, (ax2 + bx + c)2, (ax3 + bx2 + cx + d)2,..... the coefficients of descending powers are always a2, 2ab, (b2 + 2ac), (2ad +2bc),..... Swamiji called these coefficients as duplex. So duplex of single digit number is square of itself, square of two digit number is two times the product of two numbers, duplex of three digit number is sum of square of the middle number and two times the product of first and third number, and so on. Putting these duplex at proper place we obtain the square of a number. Similarly if we subtract the duplex from the given number we obtain the square root of a number. This method has a powerful application of finding the approximate value of irrational numbers (a number which have non recurring and non repeating decimal numbers). Irrational numbers are real numbers and we never obtain its exact value. So we obtain its approximate value always. Here we discuss how to find the approximate value of irrational number by creating duplex (Dwandwa Yoga).

### I. INTRODUCTION

### II. METHOD AND PROCEDURE

This method of finding the approximate value of The Dwandwa Yoga or The Duplex combination irrational number is very simple. This method is applicable for the computer programming. This method of finding the square of a number is the application of algebra in arithmetic. Finding the square root is the reverse process of finding the square.

process

How to generate the duplex?

- 1) For single digit number 'a' duplex of 'a' =D(a)
- 2) For two digit number 'ab' duplex of 'ab' =

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# Synthesis, Characterization, Magnetic and Thermal Analysis of Chelate Polymers Derived from adipyl bis-ptolylcarbamide

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1.2.3.4.6 Department of Chemistry J. M. Patel College, Bhandara-441904 (MS) <sup>5</sup>Department of Chemistry Bahubhuti Mahavidyalay, Amgoan (MS)

Abstract - In the present article we describe synthesis and Abstract - In the present article we describe synthesis and characterization of some chelate polymers of adipyl bis-p-tolycarbamide (ADBPU) with first transition series metal ions such as Mn (II). Co (II), Ni (II), Cu (II) and Za (II). The structure and composition resulting chelate polymers is confirmed by elemental analysis, reflectance spectra and FTIR studies. Further the thermal analysis and binder: corrections were such seal to Shore.

and kinetic parameters were analyzed by Sharp-Wentworth and Freeman-Carroll methods. Index Terms - Chelate polymers, Freeman-Carroll methods, FTIR, Sharp-Wentworth, Thermal studies.

Polymers are basic materials used in goods such a textiles, tires, and packaging (e.g., film containers). Also, polymers, particularly thermo in applications they are generally used as composite materials. In the transportation market, including automotive, marine, and aerospace. Today most of these markets are mature, and it is predicted that future growth will be small. There are several more polymer uses however, this may be less evident, but it has tremendous potential and includes challenges for new technology and growth into the 21st century. The demand for practical applications of new materials has been research in chelate polymers, design and synthesis has been promoted, because of their diverse ses [1-4]. Chelate polymers of a number of bis et) with transition metals have been reported by [5] Gandhi and co-workers reported chelate polymers of hydroxamic acid with high thermal stability [6] Tadavi et al. prepared series of transition meta complexes with Mn (III), Co(II), Ni(II) and Cu(II) and studied thermal stability [7]. Chaudhary reported thermal decomposition studies of some metal chelate it Mahavidyalay, Amgoan (MS)

polymers and morphological behaviour of a particular ligand with various metal ions at heating rate 5 °C min-1 under nitrogen atmosphere. We found out only TG, DTG and DTA investigation of metal chelate polymers at heating rate 5 °C min 1. The thermogravimetric data, the dehydration of water and degradation of organic ligands were invoked to monitor in order to evaluate decomposing temperature 181, Various studies have been reported on themal stability, synthesis, morphological and applications of transition metal organic coordination polymers with derivative of diacnosytic [9-13]. Coordination polymer of divalent transition metal with chelating ligand is an interesting topic in the branch of coordination chemistry due to its specific properties and high thermal stability than ordinary complexes. Literature survey reveals that the synthesis of transition metal coordination polymers with chelating ligand was based on stability [14-15]. Herein, we have reported thermal study of three novel coordination polymers of did wilent transition metals. The aim of current work was to describe the comparative thermal behaviors by using TG-DTG and DTA techniques

current work was to describe the comparative thermal behaviors by using TG-DTG and DTA techniques under multiple heating rates. Also, we have evaluated thermal decomposition kinetics and thermodynamic parameters including activation energy, order of reaction by Sharp-Wentworth and Freeman-Carroll method.

II. EXPERIMENTAL

A. CHEMICALS All the chemicals used were AR grade. The solvents used were doubled-distilled before use

B. INSTRUMENTS

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# गोंदिया जिल्हयात 'मनरेगा' अंतर्गत रोजगार निर्मिती- एक अध्ययन

प्रविणकुमार एम. लोणारे सहाय्यक पाध्यापक अर्थशास्त्र विभाग, भवभूती महाविद्यालय, आंमगांव, जि. गोंदिया (महाराष्ट्र)

ग्रामीण भागाचा सुयोग्य विकास करण्याच्या दृष्टीने उपलब्ध मानवी संपत्तीव्दारे ग्रामीण भागात टिकाऊ सामुहिक मालमत्ता निर्माण करीत असतानाच ग्रामीण भागात राहणार्या व अंग मेहनतीची अकुशल कामे करणाऱ्या, मजुरांना रोजगार उपलब्ध व्हावा या उद्देशाने केंद्र सरकारने राष्ट्रीय ग्रामीण रोजगार हमी अधिनियम 2005 पारीत केला असुन सदर कायद्यान्वये ग्रामीण भागातील कुटुंबाला 100 दिवसांचा रोजगार उपलब्ध करून देण्याची हमी देण्यात आलेली आहे. महाराष्ट्र शासनाने राज्याची रोजगार हमी योजना, व केंद्राची राष्ट्रीय ग्रामीण रोजगार हमी योजना यांची सांगड घालुन महाराष्ट्र ग्रामीण रोजगार हमी योजना अंमलात आणलेली आहे. या योजनेला महात्मा गांधी राष्ट्रीय ग्रामीण रोजगार हमी योजना असे संबोधले जाते.

# प्रस्तावना :

1972 साली पडलेल्या भयंकर दुष्काळामध्ये महाराष्ट्र शासनाने पहिल्यांदाच ग्रामीण भागात कामे काढून त्यावर लोकांना रोजगार उपलब्ध करून दिला. विधानसभेचे तत्कालीन सभापती आणि रोजगार हमी कायद्याचे प्रमुख शिल्पकार श्री. वि.स. पागे यांच्या व इतर अनेक नेत्यांच्या प्रयत्नामुळे आणि तेव्हाच्या चवळीच्या रेट्यामुळे, महाराष्ट्र शासनाने 1977 साली मागेल त्याला /तिला मागेल तेव्हा मागेल तेवढे काम आणि त्या कामाचा किमान – समान दाम देनारा 'रोजगार हमी कायदा' केला. गरजू व्यक्तीना अशा प्रकारे त्यांच्या परिसरात रोजगाराची हमी देतानाच त्यातून ग्रामीण विकासाची कामे घडवण्याची व्यवस्था करण्यासाठी कायदा करणारे महाराष्ट्र हे देशातील पहिले राज्य आहे. ग्रामीण भागात तसेच 'क' वर्ग नगरपालिका क्षेत्रात राहणाऱ्या आणि अंग मेहनेतीचे काम करायला प्रौढ व्यक्तीला मागितल्यानंतर रोजगार उपलब्ध करून देण्याची आणि रोजगार निर्मितीद्वारे गावामध्ये टिकाऊ आणि उत्पादक मालमत्ता तयार करण्याची जबाबदारी राज्य शासनाने घेतेली आहे

# २४. कृषि एवं ग्रामीण विकास में शासन की भूमिकाए

प्रा. डॉ. प्रविण एम. चंद्रगिरीवार

रा.तु.म. मागपुर विद्यापीठ, नागपुर, अंतर्गत भवभुती महाविद्यालय, आमगांव, जि. गोदिया.

मारतीय ग्रामीण अर्थव्यवस्था कृषि पर आधारित अर्थव्यवस्था है अतः सरकार को विभिन्न पंचवधीय योजन के मध्यन से कृषि से समीवित तथु एर कुटीर उद्योगोंको बदाव देने की आवस्पकता है ताकि लांगोंको तंजगार एपलब्ध हो सके। कृषि को राज्य का सबसे बढ़ा रोजगार दिलाने वाल नियोक्ता कल जा सकता है। जिसकी सकल धरेतु उत्पाद में हिस्सेदारी 4 प्रतिशत है जो देश में समावेशी विकास का एक सामका सध्यन है। आयुनिक कृति तकनीकों से साथ-साथ इसके तिए कई गोर्चा पर काम करना होगा। भारत में तगरम 65 प्रतिक्ता कृषि बारिक पर निर्मर करती है और अप्रे से अधिक क्षेत्र में अत्याधिक बारिश या अत्यत्य बारिश हमेश परेशानी का कारण बनती है। गुणवाला में सुधार और उपसम्धता के लिए खावश्यक साधन जुटाने के लिए कदम उठाये जा रहे हैं। जिनमें खादय, बीज, बिजती और सिंबाई की सुविधाओं को प्राथमिकता में शामिल किया जा रहा है। इन कदमों की सवाने से कवि को लामदावक व्यवसाय बनाया जा सकता है।

मूलक वामीण रुब्द एक व्यापक सब्द है। आजादी के बाद से ही सरकार के समक ग्रामीण क्षेत्रों का विकास एक महत्वपुर्ण चुनीती रहा है। आज वी भारत को करीब 70 प्रतिञ्जत से ज्यादा आबादी मार्थ में निवास कसती है। जहां जिसा. स्वास्थ्य, स्वयक्ता, बिजली, पानी का अभाव देखा जाता है वहीं गरीकी एवं बेरोजगारी की अधिकता देखने को मिलती हैं। वह सब है कि छः दशक बद भारत के गावी की तस्वीर काकी हद तक बदली है जिसमें पंतरणीय योजना का महत्वपुर्ण पुरिका रहा है। अभितक व्यापक करलेखा खिळी गई है। विशेष कर ग्रामीण विकास के आंगीत कृषि सिका, विजली, सकत पानी शिवाई, उर्जा, रोजगार, गठैबों का विकास प्रमुखता से काला है।

### ग्रामीण विकास में कृषि का महत्व

कृषि को राज्य का सबसे बढ़ा राजगार दिलाने वाला नियोक्ता कहा जा सकता है जिसकी सकल घरेलु जत्याद में हिस्सेदारी 4 प्रतिकत है जी देह में समावेशी दिकास का एक सहका बाव्यम हैं। अध्योगक कृषि तकनीको के साथ साथ इसके तिए कई मोर्ची पर काम करना होंगा। कृषि के तिए बहत्तपुर्ग है सिवाई के लिए पनी इसके प्रकार में पानी के इस्तेमाल के समय आब्द मुजबला में सुधार लाना होगा साथ ही उन्नल किल्म के बीजों का इस्तेमाल करना होगा। इसके अलाख मिट्ठी के परीक्षम और मिट्टी ने पोषक तत्व बढाने के समयों पर भी ध्यान देना होगा ताकि लाखों पामीग गरीब कुनकों के तिए आप और रोजगान के अवसर का सुजन हो सके कृति विवास करना समझ्त्री विकास मीति एक प्रमुख घटक है तथा इस सबय में कुछ प्रगति हुई है।

## विभिन्न पंचवर्षीय योजनाओं में कवि की स्थिति

प्रथम योजना काल में हेक्टेकर भूमि को कृषि योग्य बनाया गया। साथ ही प्रति हेक्टेकर उत्पादकता बढ़ाने की दृष्टि से चांवत की खेती के

लिए जापानी कवि फदति को अपनाया गया। द्वितीय योजना में कृषि की अपेक्षा आकरभूत उदयोगों की अधिक महत्व दिया गया क्योंकि योजना आयोग का मेत था प्रथम योजना में कृषि

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# स्त्री भ्रूणहत्या के कारण एवं उपाय

प्रविणकुमार एम. लोणारे सहाय्यक प्राध्यापक अर्थशास्त्र विभाग, भवभूती महाविद्यालय, आंमगांव, जि. गोंदिया (महाराष्ट्र)

### सारांश :

इस परंपरा के वाहक अशिक्षित व निम्न व मध्यम वर्ग ही नहीं है बल्कि उच्च व शिक्षित समाज भी है। भारत के सबसे समृध्द राज्यों पंजाब, हरियाणा, दिल्ली और गुजरात में लिंगानुपात सबसे कम है। 2001 की जनगणना के अनुसार एक हजार बालकों पर बालिकाओं की संख्या पंजाब में 798, हरियाणा में 819 और गुजरात में 883 है। कुछ अन्य राज्यों ने इस प्रवृत्ति को गंभीरता से लिया और इसे रोकने के लिए अनेक कदम उठाए जैसे गुजरात में 'डीकरी बचाओ अभियान' चलाया जा रहा है। इसी प्रकार से अन्य राज्यों में भी योजनाएँ चलाई जा रही हैं। भारत में पिछले चार दशकों से सात साल से कम आयु के बच्चों के लिंग अनुपात में लगातार गिरावट आ रही है। वर्ष 1981 में एक हजार बालकों पर 962 बालिकाएँ थी। वर्ष 2001 में यह अनुपात घटकर 927 हो गया। यह इस बात का संकेत है कि हमारी आर्थिक समृध्दि और शिक्षा के बढते स्तर का इस समस्या पर कोई प्रभाव नहीं पड रहा है। वर्तमान समय में इस समस्या को दूर करने के लिए सामाजिक जागरूकता बढाने के लिए साथ–साथ प्रसव से पूर्व तकनीकी जांच अधिनियम को सख्ती से लागू किए जाने की जरूरत है। जीवन बचाने वाली आधुनिक प्रौद्योगिकी का दुरुपयोग रोकने का हरसंभव

### परिचय:

नारी को देवी दुर्गा, पार्वती की पूजा करने वाले देश में गर्भ में कन्या की हत्या करने का रिवाज काफी पुराना है पुराने जमाने से ही किसी एक वर्ग विशेष में नवजात लडिकयों को दूध में डुबो कर मार दिया जाता था। या कई बार जन्मते ही जहर चटा दिया जाता था। इस देश में नारी पर जल्म की कथा काफी पुरानी है सीता गर्भ वती होने के बाद भी निष्कासित कर दी जाती है और द्रौपदी भरी महा सभा में अपमानित की जाती है .प्राचीन समय में युद्ध में किसी राजा की पराजय के बाद वहाँ की रानियाँ तथा सभी कुलीन महिलाओं को राज्य के सम्मान के खातिर जौहर करने या स्वयं को अगनि में समर्पित करने के लिए प्रेरित किया जाता था ताकि शत्रु उन्हें युद्ध में जीती अन्य वस्तुओं के साथ लूट कर न ले जा सकें।

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## FLORISTIC STUDY OF FAMILY SOLANACEAE OF AMGAON REGION, GONDIA DISTRICT (M.S.)

P.G. Department of Botany, Bhawabhuti Mahavid 441902 (M.S.) India Nakade J. G.', Awaley M. G., Patale C. K. of Botany, Bhawabhuti Mahavidhyalaya, Amgaon Dist Gondia Email: jayendranakade26@gmail.com

Communicated: 16.12.19 Revision: 05.01.2020 Accepted: 24.01.2020 Published: 30.01.2020

The investigation was carried out in order to explore the existing floristic composition Amgion, Dist Gondia (Maharashtra). The present area of Amgion was selected for the floristic studies because has been given little attention of its vegetation. A Total of 13 species under 08 genera of solanaceae we collected. Among 08 genus Solanum is mostly dominant. A complete account of each species is given wit overest onemetature, local name, flowering &fruiting season and their Medicinal and Economical important.

Key words: - Solanaceae, Floristic study

economically and medicinally important family of about 98 genera and some 2,700 species, with a great diversity of habitats, morphology and ecology. The family ranges from annual and herbs to vines, lianas, epiphytes shrubs and trees, and includes a number of important agricultural crops, medicinal plants spices, weeds, and ornamentals. Many members of the family contain potent alkaloids, and some are highly toxic, but many cultures eat nightshades, in some cases as staple foods. The family belongs to the order Solanales, in the asterid group Dicotyledones ( Magnoliopsida ).

The name Solanaceae derives from the genus solanum, "the nightshade plant". The etymology of the Latin word is unclear. The name may come from a perceived resemblance of certain solanaceous flowers to the solanum is known as the "sunberr". Alternatively, the name could originate from the Latin verb solari, meaning "to soothe", presumably referring to the soothing pharmacological properties of some of the psychoactive species of the

Members of the Solanaceae are most abundant and widely distributed in the tropical regions of Latin America, where about 40 genera are endemic. Very few members are found in temperate regions, and only about 50 species are found in the united states and Canada combined. The genus solanum contains almost half of all the species in the family, including all the species in the family, including all the species of wild potatoes found in the western hemisphere. The poisonous alkaloids present in some species of the family have given the latter its sonbre vernacular name of "nightshade".

The family is also informally knows as the nightshade or potato family. The family includes Datura, Mandragora, Belladonna, Capsicum, Solanum, etc.

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INTRODUCTION:

The Solanaceae or nightshades are an important family of economically and medicinally important family of flowering plants. The Solanaceae consists of about 98 genera and some 2,700 species, with a great diversity of habitats, morphology and ecology. The family ranges from annual and perennial herbs to vines, lianas, epiphytes, shrubs and trees, and includes a number of important agricultural crops, medicinal plants, spices, weeds, and ornamentals. Many members of the family contain potent alkaloids, and some are highly toxic, but many cultures eat nightshades, in some cases as staple foods. The family belongs to the order Solanales, in the asterid group Dicotyledones ( Magnoliopsida ).

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to the soothing pharmacological properties of some of the psychoactive species of the family.

Members of the Solanaceae family are found throughout the world but are most abundant and widely distributed in the tropical regions of Latin America, where about 40 genera are endemic. Very few members are found in temperate regions, and only about 50 species are found in the united states and Canada combined. The genus solanum contains almost half of all the species in the family, including all the species in the including all the species of wild potatoes found in the western hemisphere. The the family have given the latter its sonbre vernacular name of "nightshade".

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**Development of Virtual Experiment on Transistors Characteristics** Using Virtual Intelligent Soft lab for Virtual Learning Environment

> Bhaskar Y. Kathane, Pradeep B. Dahikar Bhawabhuti Mahavidyalaya Amagon, Gondia (MS), India Kamla Nehru Mahavidyalaya Sakkardara, Nagpur (MS), India hykathan@pdfflmid.com bhabikara@pdfflmid.com bykathane@rediffmail.com, pbdahikarr.

### ABSTRACT

ABSTRACT
The scope of this paper includes development and implementation of virtual lab for Transistors Characteristics. The study of Transistors Characteristics is important in Electronics, Computer Science and Engineering. The Transistors Characteristics experiment can be performed by using the concept of virtual Intelligent SoftLab (VIS). The virtual experiment described here will help students to perform virtual experiments anywhere and anytime anywhere. The screen shows the Characteristics of Transistor and shows related outputs. VIS gives us a facility to change of Input values using virtual instruments and observed the outputs. In this paper we check the input output characteristics of Field Effect Transistor (FET), Bipolar Junction Transistor (BJT) and Uni-Junction Transistor (UJT). The effect of Transistors Characteristics is visible on the screen. the screen.

Keywords SoftLab, Transistor Characteristics, UJT, BJT, FET, Virtual Lab etc.

### 1. Introduction

1. Introduction

The basic concept of VIS (Virtual Intelligent SoftLab) Model is to provide a virtual platform for learners to perform the experiment with their own selection. The Virtual experiments are designed in such a manner as to give a real feel of performing the experiment. During the experiment has been designed in such a manner as to give a real feel of performing the experiment. During the experiments combed a maximum number of learning components in virtual experiments. Virtualizations of experiments could be broadly classified, based on the data used for performing the experiments could be broadly classified, based on the data used for performing the experiment in The Soft Lab philosophy provides us to link the physical laboratory experiment with its theoretical simulation model with interactive environment. The goal for each instance of a SoftLab laboratory is to create a software environment where experimental research and interact with each other. In SoftLab project, we have elaborated the various issues involved in the design and development of SoftLab model for Electronics, Computer science and engineering. VIS model describes how the SoftLab philosophy was used to design and implements. The VIS forces us to challenge of solving experiments. The SoftLab framework should provide the infrastructure that serves the needs for basic research. SoftLab is such a flexible laboratory environment. Its goal is to simulate a laboratory space having a well-equipped instruments and a variety of materials. Using SoftLab Softical is such a lieuron accordancy survivolution. Its goal is to annulate a moreovery space having a well-equipped instruments and a variety of materials. Using SoftLab students may be learned from an instructor to perform an experiment. The student may study, take out the instruments he needs, connect them together, make his

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INDIAN TRADITIONAL KNOWLEDGE FOR THE TREATMENT

OF KIDNEY STONE: A REVIEW

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This review describes 58 plant species used by tribal and local people of different parts of India for the timent of kidney stone. Present review provides traditional ethnomedicinal knowledge to research communities well as to pharmacuttain industries.

\*r words: - Kidney stone, traditional knowledge, India.

### INTRODUCTION:

Herbal medicine used since long time in our country to cure various types of diseases and ailments. This practice is continuously working by tribal and local people of the nation. Various types of therapies are used by the local healers and medicine men to cure ailments. From region to region different plant species are used for the treatment of diseases depending on the availability of that plant species.

### MATERIAL AND METHODS:-

The investigation on wetland plants of the corridor was carried out in all three different seasons; winter (October to January), summer (February to May) and monsoon (June to September) from October 2014 to September 2016. Observed plants were photographed and plant specimens were identified as per Ugemuge (1986), Kodarkar, (1992), Cook(1996) and Fasset (2000). The aquatic plants were categorized on the basis of their existence in lake as submerged, floating, shore plants and peripheral plants. Conservation needs of the aquatic plants were ssed on the basis of IUCN red list status

In our country vaidus, hakims, medicine men women, herbal medicine practitioners used plants for the treatment of urinary related problems which include kidney stones. In present review, attempt has made to find out plants used for the removal of kidney stone.

During the literature survey, total 58 plant species found to be used by different communities and from different localities of India to remove kidney stone. The plant species those are used for the treatment of kidney stone are enumerated as follows with their citation as follows.

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60 OUR HERITAGE ISSN: 0474-9030.Vol-68. Spe. nal Conference On E-Business. F.N. E-Education and E-Governance (ICE4-2020) Kamla Nehru Mahavidyalaya, Nagpur E-Commerce and Cyber Law Dr. Ku. Mrunali S. Lilhare Assistant Professor Bhawabhuti Mahavidyalaya, Amgaon Dist-Gondia Mob No.9764346757 Absract:-E- Commerce is the most important topic in this world. Electronic commerce is E-commerce is one most important topic in this world, electronic commerce is called E-Commerce the consist of Online Shopping, online services Services, Online Product etc. Electronic Services system are web & different type of network Indian E-Commerce is rapidly growth in the last ten years. Maximum people performed the online transaction just like online banking and looking. This paper are present the summery of cyber law, attacks, security and privacy related to the commerce and that also possible solution. Keywords :- B2B,,shopping, transaction. Law etc. E-Commerce is the online transaction the buying and selling of goods and services or transfer the online funds , money, etc. these business transaction cover the business to business (B2B) , Business to consumer (B2C), Consumer to Consumer or Consumer to Business. E- Commerce is the modern trade technology. E-Commerce is very important tools for small and large business in the world.



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Abstract

In the area of Internet, e-business model has become the key to the success of ein the area of interfice, evolusines moder has become the key of our success of e-commerce. B2C model has produced many well-known electrical business empires, such as Yahoo, Amazon, etc. At the same time, because of customers' personalized needs, "consumer-driven" C2B e-business model has become a new growth point by a lot of enterprises. B2C and C2B are the main stream mode of e-business, and participants are both B2B and B2C. This article is comparative analysis on background of C2B and B2C.

Keywords: C2B, B2C, electrical business model, value chain, integration innovation

Introduction

The system of doing business is changing very fast as the communication technology is upgraded over time. The number of intermediate parties involved in the business atransactions or processes also is changing as the system of transactions is upgraded over time, situation and space. At present, the system of doing business or the process of buying and selling is settled through the websites to a large extent and which reduces the intermediaries in the distribution channel of selling or buying and similarly increases the application of digital money in the payment system. Therefore, the traditional commerce is now converted to a large extent as electronic commerce or e-commerce. Based on parties involved in transaction or commerce there are three separate parties, namely, business (B2B), consumer or citizen(C) and government (G). From these three dimensions of business party, there are 3x3-9 nine models of commerce namely, Business to Business (B2B) Business to Consumer (B2C), Business to Government (G2G), Consumer Business (C2B). Consumer C2CO,

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(52)

Synthesis and characterization of terpolymeric resin for removal of hexavalent chromium

Nitin D. Vilayatkar\*, Pralhad K. Rahangdale\*\*, Sudhir M. Maskey\*, Aniruddha Mondal\*, Sudhir S. Bhuyar\*, Manjiri S. Nagmote\*, Sudip Mondal\*\*

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ABSTRACT

B-BIGIT terpolyments (reist was synthesized by condensation of 8-bytesey quivoline (8-bit), if femaladelysis in 1-12 med antis in the processor of 8-bit as a cultipal. Moyetherized material stocauth by districted study, of PIR. 200 and 10 MRI an approach processor of 10-bit and 10-bit

\* Corresponding enthers.

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# ५. माणिक बंडूजी ब्रम्हभट्ट ते वंदनीय राष्ट्रसंत तुकडोजी महाराज : एक जीवन प्रवास

प्रा. सी. धनश्री एल, राणे सहायक प्राप्यापक

राष्ट्रसंत तुकडोजी महाराज हे भारतभूगीत त्यातत्या - त्यात विदर्भात जन्मतल एक प्रवसून कीलान हार एक श्रेष्ठ प्रतीचे संत, विचारवंत व आचारवंत तसेच समाजप्रवाधक आणि मानवतावादाचे कहर पुरस्कर्त हार प्राप्त . होतनकार्याच्या **दिशा स्पष्ट व स्वच्छ होत्या. त्यांच्या कार्याच्या यशस्यीतसाठी स्वांनी सहजगुदर रूद्धात नाहिन्तरह**न केली. भजन हे माध्यम प्रामुख्याने प्रचारासाठी निवसून आपल्या प्रासादिक खंजरी भजनाने जनतेला प्रकारक गाँउन घातली. त्यांच्या भजनांनी गावोगावी चालणारे तमाशे आणि गयाळ गाणी बंद पडली. वंदनीय तुकतारी न्यूनराज जीवनाची बैठक रामदासरवामी, स्वामी विवेकानंद, विनोवाजी इत्यादी सत्युरूपोसारखी होती. ह सई सह सन्दुरूप भारतीय संस्कृतीच्या अत्युच्य यैदकीयरून परमार्थाचा व भारतीय समाजरचनेचा विचार करतात परम्पराज्या त्याची पूर्ण श्रद्धा आहे. पण त्यांचा ईश्वर हिमालयाच्या गिरिगव्हारात वजून बसलेला नाही. अर्धपादी गहरा-ए आणि अज्ञान व दारिद्रय यांच्या पाशात सापदून अगतिक झालेल्या आपल्या अगणित दीन आणि दलिल दशकादल या संताना त्यांचा देव दिसतो. रामदासस्यामी लहानपणी बोहल्यावरून पळाले खरे, पण समाजाव्या विशाल प्रत्यावरू त्यांनी कशीच पाठ फिरवली नाही. उलट " आधी प्रपंच करावा नेटका " हे सामान्य बनुष्याला प्रदूपन प्रतीन इहलांकीच्या जीवनाविषयी त्यांच्या मनात आस्था चत्पन्न करणारे तत्यज्ञान त्यांनी निःसदिश्य शब्दात प्रतिपादन कल

स्वामी विवेकानंद तर " ज्याला विधवेचे अश्रु पुसता येत नाहीत किया अनाध अर्भकाच्या तांकात अनाच पास पालता यंत नाही, असा धर्म किंवा ईस्वर मानायला मी क्षणभरसुध्वा तयार नाही " असे विशाल लामाजिङ्जन भारतंत विचार व्यक्त करतांना दिसतात. विनोबाजी तर भूदान - यज्ञ आरभून त्याच्या सिद्धीकरिता अभूतपूर्व अस विधिजय करण्यास सिद्ध झाले. त्यांचे हे कार्य अश्वमेध आणि राजसूय यज्ञ करणा—या प्राचीन तपस्वी ऋषीमुनी व सम्राटापेसाही अनंतपटींनी श्रेष्ठ होय.

राष्ट्रसंत तुकडोजी महाराजांनी भारताच्या समूळ परिवर्तनाचे मुळ कशात आहे. हे सखोल विधाराती ओळलले हात लोकमान्य टिळक, डॉ. अंनी बेझंट, म. मांची या सर्व राष्ट्रीय पुढा-यानी स्वातत्र्याच्या गळवळीच्या वेळी एक गाप्ट लोकाच्या नजरसमोर पुन्हा पुन्हा देवली व ती म्हणजे भारताची सुधारणा सुधारणा म्हणजे नुसती मुन्हं पुणे कलकता, केन्द्रं, जबपुर, मागपूर, यासारख्या शहरावी सुधारणा नव्हें, तर भारतातील सार्वसात तास्त्र होत्रयांची पुचारणा जासबैत स्वेठी सुधारणार नाही, तांपर्यंत भारत सुधारला असे म्हणता येणार नाही राष्ट्राच्या उन्मतांसाठी प्रत्यक खंड स्वयपूर्ण व्हायला हवे. खंड हे एक स्वयपूर्ण स्वतंत्र घटक म्हणूनच भारतात असायला हवे तरच भारत प्रगत राष्ट्रांत मान्यता पावल अश्री त्यांची धारणा होती. हथा तत्वज्ञानाने घेरित होऊन राष्ट्रसत तुरुडोजी महाराज खेतापाडी हिंदून ती सुधारण्यासाठी सातत्याने प्रयत्नशील सहिले यात त्यांना एक गोष्ट प्रामुख्याने जाणवली कायम स्वरूपाच्या मार्गदर्शनाची गरज! यासाठी त्यांनी मोश्ररी (गुरूकुज) येथं कायमस्वरूमी आश्रम स्थापून, स्वयंसेवक तयार

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# A NEW INTEGRAL TRANSFORM AND ITS APPLICATIONS IN ELECTRIC CIRCUITS AND MECHANICS

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In this paper, few fundamental properties of a new integral transform have been taken into consideration. The main purpose of this paper is to show the applicability of a new integral transform to electric circuits and Mechanics with verification by Laplace transform which require utilization of differential equations and adultions in time domain.

Keywords: New integral transform, Laplace transform, Electric circuit, Differential equation

1. Introduction

Laplace transform found to be very applicable in many areas of Mathematics such as ordinary differential equations, partial differential equations, integral equations, electric circuits in Physics and electrical engineering. A new integral transform was introduced by Artion Kashuri and Aklj Fundo 11 who showed that a new integral transform is applicable in solving ordinary and partial differential equations in the time domain, Artion Kashuri and Aklj Fundo 18 concluded that there is a much deeper connection between Laplace and a new integral transform and other relations of a new integral transform can be found by this connection [1]. A.R. Vasisthla and R. K., Gupta [2] showed the applications of Laplace transform to electric circuits and Mechanics, Janki Vashi and M. G. Timol [3] showed the applications of Laplace and Sumudu transforms in Physics and electric circuits. Targik M. Elzaki [4] showed the connection between Laplace and Elzaki transforms. The main purpose of this paper is to show the applications of a new integral transform to electric circuits and Mechanics and to verify that there is a deeper connection between Laplace and a new integral transform to electric circuits and Mechanics and to verify that there is a

2. Preliminaries

Definition.[1] Consider the class of functions F, where

$$F = \left\{ f(t) \mid \exists M, k_1, k_2 > 0 \text{ such that } |f(t)| \le M e^{\frac{|t|}{k_1^2}}, \text{ if } t \in (-1)^i \times [0, \infty) \right\}$$

For a given function in the set F, the constant M must be finite number,  $k_i$ ,  $k_i$  may be finite or infinite. A new integral transform denoted by the operator  $\Re(\cdot)$  is defined by

$$\mathcal{K}[f(t)] = H(v) = \frac{1}{v} \int_{0}^{\infty} e^{\frac{-t}{v^2}} f(t) dt, t \ge 0, -k_1 < v < k_2$$

New integral transform of some special functions i)  $\mathcal{K}[1] = v$  ii)  $\mathcal{K}[t^n] = n! \ v^{2n+1}$  iii)  $\mathcal{K}[e^{at}] = \frac{v}{1-av^2}$ 

 $\mathcal{K}[sinat] = \frac{av^3}{1+a^2v^4}$ 

 $\mathcal{K}[cosat] = \frac{v}{1+a^2v^4}$  $\mathcal{K}[\sinh(at)] = \frac{a}{1-a}$ 

 $\mathcal{K}[\cosh(at)] = \frac{v}{1 - a^2 v^4}$ 

**Theorem 1.1.**<sup>[1]</sup> Let G(v) be a new integral transform of f(t), then i)  $\mathcal{K}[f'(t)] = \frac{\mathsf{G}(v)}{v^2} - \frac{f(0)}{v}$ 

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### Abstract

Boswellia serrata (BS) is an important traditional medicinal plant also known as Indian frankincense, is currently represents an interesting topic for pharmaceutical research since it possesses several pharmacological properties (e.g., anti-inflammatory, antimicrobial, and antitumour). B. serrata (Salai/Salai guggul), is a moderate to large sized branching tree of family Burseraceae (Genus Boswellia), grows in dry mountainous regions of India, Northern Africa and Middle East. In the present research, B. serrata bark was collected from Pohra forest region. Dist. Amravati Maharashtra. Aqueous and Ethanolic extract of B. serrata bark was prepared to study in vitro antioxidant activity using DPPH assay. Our results showed that Ethanolic B. serrata bark extract shows more antioxidant activity i.e. 80% percent inhibition as compare to aqueous extract 60%. The TLC based separation of metabolites was performed using Choloroform: Methanol (15:1) solvent system which suggest the presence of metabolites of several class. The GC-MS anlaysis of the Ethanolic B. serrata bark extract confirms the presence of various bioactive metabolites including sydone-3-benzyl, 4-karene, trans-1,2,4,5-diepoxy -methane, 5-eicosene etc

Keywords: Antioxidant activity, Boswellia serrata, TLC, DPPH, GC-MS.

Herbal medications have been used for the relief of disease symptoms since ancient times (Maqsood et al2010). As a result of many years of struggle against various illnesses, humans learned to pursue drugs in barks, seeds, leaves, fruits and other plant parts (Petrovska 2012). It has been estimated that 25% of modern medicines are made from traditionally used plants and about 80% of the world population relies on herbal medicines in dealing with some aspects of their primary health care.

The plant Boswellia serrata is locally known as "Salai" in Hindi and belongs to family Burseraceae. It is distributed in the hilly region of the country and also occurs in quite abundance in the plains of central India. The plant is of medium size and on tapping provides a very important gum known as "OlegumResine" which is ommonly known as "Indian Olibanum" or "frankincense".

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Study of palatable food items prepared from wild edible plants by Surkuda villagers, Amgaon region, Gondia district (M.S.)

4

JG Nakade<sup>1\*</sup>, MG Awaley<sup>2</sup>

Abstract
The tribal communities have been largely dependent on the wild plants for various purposes. Surkuda village is belonging to Amgaon Tabisl of Gondia district. People of the village are engaged in agricultural works and living in vicinity of the small parkses of forest. Since long time they used wild edible plants for fullfilment of their lunger in the form of raw fruits, leaves and ecosing and parts of the plants for the preparation of palatable food items. Same village was undertaken for the study of palatable food items prepared by locals from wild edible plants. For that several visits were carried out during investigation. Total 22 plants were documented used by villagers.

Keywords: wild plants, tribal communities, Surkuda village, traditional uses, Gomdia dist

Introduction

Wild edible plants are the precious gift of our nature of the country. Several studies been and most of the ethnic communities are strongly conducted on documentation of traditionally used depends on it for their adys-to-day life. There were no works that are not only supplement to the There were no works that are not only supplement to the There were no works that are not only supplement to the country of th

Review of Literature
Rajassab and Isaq (2004) <sup>[6]</sup> documented folk knowledge of 51 plant species as edible from North Karnataka. Nedecheva A. (2017) <sup>[6]</sup> sudied an Ethanobotanical study of wild edible plants in Bulgaria. Angamie et al. (2006) studied status and potential of wild edible plants of Arnauchal Praédab, in which they recorded about 118 wild edible plants. Kar and Borthakur (2007) <sup>[6, 4]</sup> reported 29

wild vegetables those are used by Karbi tribe and also sold in local markets in Assum Kayang (2007). documented in local markets in Assum Kayang (2007). documented in local markets in Assum Kayang (2007). documented the Market of Meghadus (2007). The Assumption of Meghadus (2007) and the Market of Meghadus (2007) and the World (2007) and the W

Topograpy and General Features of Gondia District Gondia district is situated on North-Eastern side of

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International Journal of Botany Studies ISSN: 2455-541X; Impact Factor: RJIF 5.12 Received: 23-10-2020; Accepted: 08-11-2020: Published: 28-11-2020 Volume 5; Issue 6; 2020; Page No. 305-309



# Gum vield plants of Kawarabandh Region

# Mundeep G Awaley

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Abstract
The present work is carried out to focus on the Kawork, no doubt, helps to academicians and agricultu taxa growing in the Tahsil, either wild or cultivated. ent work is carried out to focus on the Kawarabandh region (Tahsil Amgaon) flora of gum yielding plant. The said doubt, helps to academicians and agriculture scientists for better understanding of distribution of gum yielding plant

Keywords: Kawarabandh, gum yielding, plant taxa

Introduction
Proteins, enzymes, muscle fibers, polysaccharides and gummy exudates are the natural polymers being used effectively in pharmaceutical dosage forms. Natural gums (gums obtained from plans) are hydrophilic carbohydrate polymers of high molecular weights, generally composed monosaccharide units joined by glucocidic bonds. They are generally insoluble in oils or organic solvents such as hydrocarbons, echer, or alcohols. Gums are either water soluble or absorb water and swell up or disperse in cold water to give a viscous solution or jelly. On hydrolysis they yield arabinose, galactose, mannose and glucuronic acid. Based on solublity in water gums are classified as soluble, insoluble and partially soluble gums. Certan gums dissolve in water to form a transparent colloidal solution (e.g. Gum Arabio, Gums such as gum tragacanth, gum karaya do not kind water to give and the such as the s

afflecting the piant, ann as a suppliant by micrognatisms. The plant based polygognatisms. The plant based polygognatisms are polygognatisms and polygognatisms of the plant based polygognatisms and plant microgsheres, annoparticles, viscous liquid formulations like ophthalmic solutions, suspensions, implants and their applicability and efficacy has been proven. These have also been utilized as viscosity enhancers, stabilizers,

disintegrants, solubilizers, emulsifiers, suspending agents, gelling agents, bioadhesives and binders. By keeping the abovesaid usage of gum yielding plant, the present work is carried out to know the flora of Kawarabandh region yielding Gum.

Plan of Work
The present work has been undertaken with an aim to account gum yeilding plant of Kawarabandh region. The account gum yeilding plant of Kawarabandh region. The present work has been carried out during September 2017 to march 2018. During this period several visits and field trips undertaken and more than 25 localities have been visited. Total 10 specimens collected from different locations of the Salekasa tehsil. Some of them visited frequently during the documentation. Identified specimens were confirmed by matching them with authentically identified species deposited in the herbarium, Department of Botany, Bhawabbuti Mahavidyalaya, Amgaon.

Blawabhuti Mahavidyalaya, Amgaon. Herbarium sheets were prepared by employing standard universally accepted method Properly identified plant specimens have been deposited in the herbarium of Bodany, Blawabhuti Mahavidyalaya, Amgaon. Every attempt has been made to adopt the most recent and correct nomenclature. The valid name is followed by basionym. Genera and species are provided with diagnostic description, local name if available, information about plant and the standard properties of the standard provides are reference to the illustration if available, information about habit and habits. Herbarium vouchers are cited for each reference to the illustration if available, information about habit and habitat. Herbarium vouchers are cited for each species. Bibliography of the references cited in the text is given at the end.

Enumeration of Taxa
Acacia Leucophloea: Polhill, R, M. 1990 Legumineuses In.
Flore des Mascareignes, Vol80. J. Bosseret a. (Plate 1, Fig. 1& 2)
Fam: Fabaceae.

# me: safed babul, haribawalhiwar

Local name: safed babul, haribawalhiwar.

Des: Acucia lencophloca is a large thorny tree attaining a height of 35 m and a diametr at breast height of 100 cm. Trunk stout, dividing into several large diameter branches. Open-grown specimen have a characteristic wide umbrellalike crown. Bark white to yellowish gray, smooth service and the service of th

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# ANTIOXIDANT ACTIVITY AND CHARACTERIZATION OF ETHANOLIC BARK EXTRACT OF BOSWELLIA SERRATA

6

M. G. Awaley<sup>1</sup>, J. G. Nakade<sup>2</sup>, Ankit S. Kale<sup>3</sup>, Himanshu S. Jaiswal<sup>4</sup>

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Study of palatable food items prepared from wild edible plants by Surkuda villagers, Amgaon region, Gondia district (M.S.)

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Abstract
The tribal communities have been largely dependent on the wild plants for various purposes. Surkuda village is belonging to Amgaon Tabsil of Gondia district. People of the village are engaged in agricultural works and living in vicinity of the small patches of forest. Since long time they used wild edible plants for fulfillment of their hunger in the form of raw fruits, leaves after cooking and parts of the plants for the preparation of palatable food items. Same village was undertaken for the study of palatable food items prepared by locals from wild edible plants. For that several visits were carried out during investigation. Total 22 plants were documented used by villagers.

Keywords: wild plants, tribal communities, Surkuda village, traditional uses, Gomdia dis

Introduction
Wild edible plants are the precious gift of our nature of the
country. Several studies been and most of the ethnic
communities are strongly conducted on documentation of
traditionally used depends on it for their day-to-day life.
There were no works that are not only supplement to the
food quantity, but also an investigate the utilization of wild
edible plants for making important option during structions.

There were no works that are not only supplement to the food quantity, but also an investigate the utilization of wild edible plants for making important option during starvation for survival and thus traditional recipes used by different ethnic communities of makes significant contribution to the human nutrition (Deb D et al., 2013)<sup>[1]</sup>. Consuming wild edibles is a part of the food habits of people in many societies and intimately connected to virtually all aspects of their socio-cultural, spiritual life and health. It plays a major role in meeting the nutritional requirement of the tribal population in remote parts of the country throughout the year. Knowledge of non-domesticated food resources is part of traditional and unstated ecological knowledge, and is largely transmitted through socialization within cultural and household contexts. The diversity in wild species offers variety in family diet and contributes to household food security. The contributions of forest foods that make food security can be categorized into three main ways viz. providing a supplementary source of food, as seasonal foods in the diet and as emergency food supplies during periods when others are unavailable (Rashingam, 2012) <sup>[9]</sup>. Thus, present study undertaken to study palatable food items prepared from wild edible plants by Surkuda villagers belonging to Amgaon Tahsil of Gondia district (Maharashtra).

Review of Literature Rajasab and Isaq (2004) [4] documented folk knowledge of Rajasab and Isaq (2004) <sup>81</sup> documented folk knowledge of 51 plant species as edible from North Karnataka. Nedelcheva A. (2017) <sup>81</sup> studied an Ethanobotanical study of wild edible plants in Bulgaria. Angami *et al.* (2006) studied status and potential of wild edible plants of Arnuachal Pradesh, in which they recorded about 118 wild edible plants. Kar and Borthakur (2007) <sup>[5, 6]</sup> reported 29

wild vegetables those are used by Karbi tribe and also sold in local markets in Assam. Kayang (2007) [7] documented tribal knowledge on wild edible plants of Meghalaya. He recorded total 110 wild growing plants, which are eaten whole or in part by the local people and also enumerated and discussed various aspects of the wild plants used by Khaxi, Jainitia and Garo tribes. Pal et al. (2008) [9] reported 27, bigh altitude plant success; from Nubra yalley were and discussed various aspects of the wild plants used by Khasi. Jaintia and Garo tribes. Pal et al. (2008) <sup>50</sup> reported 27 high altitude plant species from Nubra valley were identified as wild edible plants and used for the preparation of Ladakhi dishes. Shangso chonna, Ldum chonna, ITanthour chonna, Kabra chonna and Phololing chanyk were some of the famous traditional Ladakhi food items prepared from the wild edible plants. Dubey et al. (2009) <sup>112</sup> studied Dillenia peniagywa Roxb., an endangered tree species, was collected, which accounts for many ethnical uses in Vindiya region of Madhya Pradesh. Nazarudin (2010) <sup>50</sup> studied nutritional composition of some lesser known fruits used by the ethnic communities and local folks of Kerala. Sasi et al. (2011) <sup>160</sup> studied and documented indigenous knowledge of wild edible plant resources from the Irulas tribe of Kotagiri at Nilgri Hills. A total of 50 plants were identified that the tribal communities of the study area fulfilled their food deficiency by supplementing wild food plants in their daily diet. Song et al. (2013) <sup>160</sup> analyzed and recorded traditional knowledge of 164 wild edible plants utilized by indigenous people living on Jeju Island in Korea. Shirai and Rambo (2014) <sup>111</sup> reported 54 plant species from North East Thailand as wild edible species. Monkey jack (Artocarpus gomentianum Wall ex. Trecul) an underutilized edible and medicinal plant of Central Western Ghats has been studied by Sarala and Krishmanurthy (2014) <sup>161</sup> for distribution, harvesting, morphology and juice vield, processing, preservation and powder vield at various regions of Central Western Ghats was supplemented and several control and powder vield at various regions of Central Western Ghats variou Krisinamuriny (2014) for distribution, narvesting, morphology and juice yield, processing, preservation and powder yield at various regions of Central Western Ghats. Recently, Setiya et al. (2016) fully reported 61 wild edible plant species consumed by aboriginals from Gadchiroli district of Maharashtra state, India.

Topograpy and General Features of Gondia District Gondia district is situated on North-Eastern side of

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### **IYOTPATTI**

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### ABSTRACT

Article Info Volume 6, Issue 6 Page Number: 155-159 Publication Issue : November-December-2020 Bhaskaracharva (Bhaskar II, 1114- 1185 AD), was one of the great mathematicians in India. His text "Sindhant Shiromani" (SS) was treated as the base of the further research oriented results by most of all the mathematicians

SS contains of two parts:, Goladhyaya and Grahaganit. Jyotpatti is the last chapter in Goladhyaya. Jyotpatti consists of 25 Shloka (stanzas), all in Sanskrit language. It is a general impression that SS contains Lilavañ and Beeiganit also, but that is not so

Jyotpatti deals with trigonometry. This was a milestone in developing geometry in India. Jya means sine and Utapatti means creation. Hence the name Jyotpatti ( jya + upapatti). Jya and Kojya( or kotijya) stand for the Rsine and Rosine ratios respectively. The trigonometry developed by Bhaskara II is based on a circle of radius R, and not on a right-angled triangle as taught in the schools.

After defining Jya, Kotijya and Utkrama (verse jya) etc, Bhaskara obtains these ratios for the standards angles of 30.45, 60, 36 and 28,(all in degrees) by inscribing a regular polygon in a circle of radius R. Bhaskara called these angles as *Panchajyaka*. Not only this, Bhaskara developed these results for addition and subtraction of two angles. This result was further developed for the similar results, for the multiple angles. Bhaskara compares *jya and kotijya* with the longitude -latitude of earth and those with lateral threads of a cloth.

Contents in Jyotpatti (Only a few mentioned here) (1) R jya  $45 = R\sqrt{2}$ , and other similar R jya values. (All in degrees)

 (2) R jya 36 = 0.5878 approx.
 (3) S<sub>n</sub> = side of a regular polygon of n sides = D sin (π/n), D is the diameter of circle in which polygon is inscribed. (4) Derivation of formulae for sin  $(\theta + \varphi)$  and cosine  $(\theta + \varphi)$  called as samas

bhavana and antar bhavana. (5) Concept of derivatives, that is,  $\delta(\sin \theta) = (\cos \theta) \delta\theta$  etc. Which is Rolle's

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Indian mathematicians developed trigonometry in different way than that of Published: 25 Nov 2020

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# Fungal Flora of Various Libraries: A review

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Abstract

Available literature was collected to fulfill the requirement of present study during September 2017 to march 2018. Research papers were downloaded with the help of web engines from different sites. So many journals visited to search download and collect documents for the same. It was found that about more than 100 fungal species are responsible for spoiling of library materials. Various researchers isolated and identified fungi that are harmful to library. These fungi require moist condition to grow on books. Aspergillus niger, A. flaves, A. fumigates, A. sydowl, A. versicolor, Acremoniu, Alternaria, aurobacidium, Botrytis, Candida albieans, Chaetomium, Cladosporium, Cumining ghamella, Curvularia lunata, Fusarium oxysporum, Mucor racemosus, Neurospora crassa, Penicillium citrium, P. funiculosum and some other species of fungi isolated and identified by different researchers from different location in India and abroad. Study concluded that Cheetomium globossum, Phoma, Aspergillus, Botrytis, Alternaria, and abroad. Study concluded that Cheelcontum globossum, Phoma, Aspergillus, Botryits, Alternaria, Curvularia, Fusarium, Mucor, Penicillium are frequently isolated from library materials. Isolated fungal species are harmful to human beings, If care is not taken place to maintain library from moisture and dust, these types of fungi can grow on library material and can spread diseases among human

Key Words: Library, Fungal Species, Human Population, Web Engines

# INTRODUCTION

Libraries are the walled in a Libraries are the walled in areas with environment different from outdoor air, polluted with substances posing health hazards. The Indoor air quality is one of the most significant factors affecting the health and well-being of the library professionals who inhale 10m³ of the air every day and spent between 80-90% of their lives in indoors. The air inhaled by people is abundantly populated with microorganisms like bacteria, viruses and fungal spores. Biological contamination of indoor air is mostly caused by moulds (fungi) they are dangerous

a Sasistant Professor,

a Amgoan, Dist. Gondia (MS)

as pathogenic living cells by secreting substances
sarmful for health. They release of toxic metabolic
products, even at a low concentration of
microorganisms can cause serious diseases,
Librarians and archivists who work with old books
and papers are exposed to a wide variety of molds
and other microorganisms, some of which are known
causes of disease. Some of those diseases are chronic,
some fatal. They can affect anyone, whether or not
they have been previously sensitized to the organism.

Fungal infections are deep within the body.
They are not restricted to any particular part of the
body and destroy number of tissues and organs.
Nearly many, library professionals in the world are
infected by fungal infections on skin, nails, hair,
parts like the respiratory tract, lungs, bones, intestine,
liver, kidney, nasal sinuses, eyes and brain are badly
affected by fungal infections. Histoplasma
(Tuberculosis) is caused by inhalation of spores of
Histoplasma capsulatum. Cryptococosis is caused by
the inhalation of spores Cryptococcus. Brain abscess
(Meningitis) is caused by the inhalation of
Aspergillus spores. Cutaneous mycosis affects skin
bones and central nervous system CNS.
Trichophyteses can affect the intestines causing
gastoentrities. Fungal infections of the nails are also
known as Onychomycosis, as Tinea unguitum, and as
ringworm of the nails. Owing to the presence of
abundant water, high carbolydrate level and easily
available nitrogen compounds in the form of amina
acids and proteins in the human body. The presence
of moisture or high relative humidity is a sufficient
Catalyst for the germination and growth of fungal
spores. The recent investigation by Wszelaki and
Kuzminska 2009 reports that the diseases of vulva
and vagina in women are caused by micotic spores
which dwell largely in libraries. A 28 was of
tractices of fungal spores, claspergilloss) died of
Aspergilla fungi that can also leads to liver damage
undered of the presence of moisture or hig

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जलवाय परिवर्तन का कृषि पर का प्रभाव

प्रविण कमार एम. लोणारे

सहायक प्राच्यापक, अर्थशास्त्र विभाग, भवभूती महाविद्यालय, ऑमगांव, जि. गोंदिया (महाराष्ट्र)

# सारांश

# क्या है यह जलवाय परिवर्तन?

बस्ती ह पदि जातवारायु धारवातार हैं पिछाने पहुंच करिने मान्यो उदावानु की भी-भी चीराजें रोज ज रहा है। कमें, दुनवा के जान्य रोते में सैक्ट्री करते से भी औरत जारपन पन हुआ था, उसमें अब बराजा को कर है। पूजी था औरता जायान आभी करीन 15 दितों सीरमाया है, हातांकि जायाना का जादुत ज्याद रोता था कम होता कोई परती बात जो भारत वहीं है तीकिन अब पिछाने कुछ जाना में उत्तवानु में अवस्था तीनों में प्रत्याचा से प्राप्ती भीमा की अपनी पिणावा होती है, तीकिन अब हुआ को पाता का कि मीता बीतों को बात है, जी सर्विच बीटों। इस ताह का बराजा के पाता पाता में हो जी जीना एंगे ट्रीया में से राज है। राजें पीपायत को जायाना चीरावीं का जम दिया गया है।

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# Fungal Flora of Various Libraries: A review

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Abstract

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Key Words: Library, Fungal Species, Human Population, Web Engines

### INTRODUCTION

Libraries are the walled in areas with environment different from outdoor air, polluted with substances posing health hazards. The Indoor air quality is one of the most significant factors affecting the health and well-being of the library professionals who inhale 10m³ of the air every day and spent between 80-90% of their lives in indoors. The air inhaled by people is abundantly populated with microorganisms like bacteria, viruses and fungal spores. Biological contamination of indoor air is mostly caused by moulds (fungi) they are dangerous

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as pathogenic living cells by secreting substances harmful for health. They release of toxic metabolic products, even at a low concentration of microorganisms can cause serious diseases. Librarians and archivists who work with old books and papers are exposed to a wide variety of molds and other microorganisms, some of which are known causes of disease. Some of those diseases are chronic, some fatal. They can affect anyone, whether or not

they have been previously sensitized to the organism. Fungal infections are deep within the body. They are not restricted to any particular part of the body and destroy number of tissues and organs. Nearly many library professionals in the world are infected by fungi. The infections on skin, nails, hair, parts like the respiratory tract, lungs, bones, intestine, liver, kidney, nasal sinuses, eyes and brain are badly affected by fungal infections. Histoplasma (Tuberculosis) is caused by inhalation of spores of Histoplasma capsulatum. Cryptococosis is caused by Histoplasma capsulatum. Cryptococosis is caused by the inhalation of spores Cryptococcus. Brain abscess (Meningitis) is caused by the inhalation of Aspergillus spores. Cutaneous mycosis affects skin bones and central nervous system CNS. Trichophysese can affect the intestines causing gastoentritries. Fungal infections of the nails are also known as Onychomycosis, as Tinea unguium, and as ringworm of the nails. Owing to the presence of abundant water, high carbohydrate level and easily available nitrogen compounds in the form of amino acids and proteins in the human body. The presence of moisture or high relative humidity is a sufficient catalyst for the germination and growth of fungal catalyst for the germination and growth of fungal spores. The recent investigation by Wszelaki and Kuzminska 2009 reports that the diseases of vulva and vagina in women are caused by micotic spores which dwell largely in libraries. Pagani and Libshitz 2010 reports that fungal pneumonias in 92 cancer patients is caused by Candida spores, which are the available fungi in many libraries. A 28 year old reader's death revealed by brain biopsy reports the infection of fungal spores (Aspergillosis) died of Aspergilla fungi that can also leads to liver damage who inhale 10m³ of the air every day and spent between 80-90% of their lives in indoors. The air inhaled by people is abundantly populated with microorganisms like bacteria, viruses and fungal spores. Biological contamination of indoor air is mostly caused by moulds (fungi) they are dangerous mostly caused by moulds (fungi) they are dangerous determined by moulds (fungi) they are dangerous supported and provided and and cancer. Trichoplion can cause skin disease. Fungi saprophytes along with bacteria decay the substance, the growth of fungi enormously multiplied in colonies and lives continuously for more than 400 years in suitable conditions. The role of the fungi in deteriorating the library professional's health and © December 2020| IJIRT | Volume 7 Issue 7 | ISSN: 2349-6002

Preparation, spectral, thermal and magnetic studies of some coordination polymers synthesized from adipyl bisp-ethoxyphenyl carbamide

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ract - In the current article we depict combination Abstract - In the current article we depict combination and interpretation of some coordination polymers of adipyl bis-p-ethoxypheny(carbamide (ABPEPC) with first transition series metal particles, for example, Mn(II), Co (II), Ni(II) and Zn. The structure and organization coming about coordination polymers is affirmed by natural investigation, reflectance spectra and FTIR examines. Further the warm investigation and active boundaries were dissocred by Sharp-Wentworth and Freeman-Carroll strategies.

Index Terms - Coordination polymers, Elemental analysis, Thermal studies, Magnetic studies.

### LINTRODUCTION

Coordination polymer of divalent progress metal with chelating ligand is an intriguing point with regards to the part of coordination science because of its particular properties and high warm strength than standard edifices. During the most recent twenty years, scientists demonstrated a great deal of revenue in the coordination science of d10 framework divalent metal in coordination polymers and organometallic polymers [1-4]. In the course of recent a very long time all through the world the strong state science was being given incredible significance by the specialists to recognize the water hydration, soundness, warm deterioration of natural moiety in coordination polymers by utilizing different warm strategies, for example, thermogravimetry, subsidiary warm investigation, differential warm investigation, differential scanning colorimetry [5-7]. Chaudhary and coworkers reported seven thermally stable coordination polymer compounds of bis(bidentate)

and and compared their thermal properties by TG DTG/DTA techniques at a heating rate of 10 °C min1 under nitrogen atmosphere [8-9]. Earlier workers from our laboratories synthesized coordination polymers of bis ligand with transition metals and reported [10]. The excellence of coordination polymer is warm strength The nanoscale particles of progress metal coordination polymers have immense warm dependability and huge expected applications [11-12]. In addition, aromatic polyamide a compound of amide bunches is - high performance polymeric materials with remarkable mechanical properties, and great warm and synthetic secure qualities [13-17].

In this work, we have analyzed warm investigation of four novel coordination polymers of d10 divalent c metals. The goal of present work was to depict the similar warm practices by utilizing TG-DTG and DTA procedures under different warming rates. Further, we have assessed warm deterioration energy and thermodynamic boundaries including enactment energy, order of reaction, enthalpy change, entropy change and free energy change by utilizing the Sharp-Wentworth and Freeman-Carroll strategy for each progression of debasement bend with the assistance of TG-DTG and DTA information. Surely, above strategies were altogether discovered supportive to look at the warm dependability and to choose whether water atoms were available at either inward or external circle of coordination polymers.

II. EXPERIMENTAL

A. CHEMICALS

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# APPLICATION OF NANOCOMPOSITE MATERIALS AND NANOFERTILIZER

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Abstruct - In the present article "composite is a combination of two or more different materials that are mixed in an effort to olend the best properties of both." A nanocomposite is a composite material, in which one of the components has at least one filmension that is nanoscopic in size that is around 10° m. Nanocomposites are high performance materials which reveal rare properties. Nanocomposites have an estimated annual growth rate of 25% and fastest demand to be in plastics and elastomers. The use of fertilizers, especially Nitrogen (N) and Phosphorus (P) are two important macronurirents responsible for the growth and yield of agricultural crops. Developing efficient fertilization practices has become more and more important due to the ever-nereasing global demand for food products.

Keyword -Nanocomposite, Nanofertilizer, Carbonnanotubes, Zeolite, Agrochemical,

LINTRODUCTION

In Composite material consists of an assemblage of two materials of different natures completing and allowing us to obtain a composite material consists of an assemblage of two materials of different natures completing and allowing us to obtain a material of which the set of performance characteristics is greater than that of the components taken separately, [1] A nanocomposite is a composite material, in which one of the components has an extracteristic in the components taken separately, [1] A nanocomposite is a composite material, in which one of the components has a part of the different natural transfer of the components taken separately, [1] A nanocomposite is a composite material, in which one of the components of the separate in the series of the components of the compon

It means to man-composites:

It. Prospects of nano-composites:

Nanocomposites offer an exceptionally extensive range of prospective applications from electronics, optical communications and biological systems to new materials. Many possible applications have been explored and many devices and systems have been considered. More potential applications and new devices are being proposed. It is evidently impossible to recapitulate all the devices and applications that have been studied. It is interesting to note that the applications of ranocomposites in diverse fields have clearly different demands, and thus face different challenges, which necessitate different approaches [10-12]. Understanding specific applications of nanocomposities in fertilizer is critical to preventing inadequately researched, field tested and regulated products from exacerbating current environmental and public health problems associated with industrial scale use of synthetic chemicals. Scientists are under enromous pressure to deliver technologies to increase yields that are not only technically reliable but cost-effective for the fertilizer industry and for farmers. 6 The public has an important role to play to ensure that any new nano-fertilizer products are not maked to matter before their environmental and public health impacts can be determined, reliably validated, and diminished, if not eliminated, through regulation and product re-design. [15]

III.Technology of nano fertilizers:

The nano-fertilizer denotes in nano scale range to deliver nutrients to plant and also present invention which substitutes concentional Fertilizer denotes in factor and the properties of the

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GORTERIA JOURNAL



Removal of Divalent Cadmium by 8-HQTF-II Terpolymeric

S.S. Shende<sup>1</sup>, P. K. Rahangdale<sup>2</sup>, S. Mondul<sup>2</sup>, S.R. Deshmulkh<sup>6</sup> and N. D. Vilayatdare<sup>2</sup>

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Abstract/8-HGIF-II repolymeric resis was synthesized by condensation of 8-hydroxy quinciline (8-HG), thiouren and formulatelysis in 12:25 mole ratio in the presence of HGI as a catalysts. A synthesized mercind was authenticated by elemental analysis, FIRE, XBD and H MARR spectroscopy. Cal(II) reserved were studied by using 8-HGIF-II via Batch equilibrium articles, while Lausguist adsorption interhermant Fermatic adsorption trouberns model were empired for desail adsorption study. The reserved efficiency of CA(II) was found to be increase with adsorbase doses from 1 to 6 on and at 6 pm maximum efficiency was found. The result shows the maximum reserved of Cal(II) can be deen easily 590;

Egymenticadroppinn instern, back equilibrium, Cd(II)re (8-RQTF-II) resis.

# 1. Introduction

1. Introduction

The problem of water pollution arises due to the disposal of heavy metals from industries from the last few decades. Different industrial discharge effluents which containing total contents and case decades. Different industrial discharge effluents which containing to the contents of the contents of

VOLUME 34, ISSUE 1 - 2021

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International Journal of Modern Agriculture, Volume 10, No.1, 2021 ISSN: 2305-7246

# A Comparative Study of Impact of Expected Medical Facility Centers as Per Unit Tribal Population Size on Mortality Number (Death Rate) of Pregnant Women of Tribal Community in Gondia District of Maharashtra State

Dr. S. S. Kawale, (Research Guide) Dean of Humanities, Gondwana University, Gadchiroli, Maharashtra, India

Prof. Prayinkumar Madhusudan Lonare, (Research Scholar), Gondwana University, Gadchiroli, Maharashtra, India

### ABSTRACT

Health is a state of complete physical, mental and social well being and not merely an absence of disease of infirmity.

Health quality can be decided on availability of health services and facilities as well as health indicators like pregnant women death rate, infant death rate, children death rate etc. Pregnant women death rate means number of death women at the time of pregnancy period. According to World Health Organization (WHO) this death rate defines as death of women at the time of Pregnancy or at the time of abortion or after forty days of pregnancy.

In India, behind death of pregnant women there are social reasons like illiteracy in women, poor knowledge about diet, financial problem in daily life etc. In India average age of girl's marriage is sixteen years. Due to early marriage in small age, girl's physical and mental growth in such small age is not fully developed resulted into death at the time of pregnancy.

"A Tribe is a collection of Families or groups of Families bearing a common name, members of which occupy the same territory, speak the same language and observe certain taboos regarding marriage, profession or occupation and have developed a well assessed system of reciprocity and mutuality of obligations."

The aim of this research paper is to study impact of expected Medical Facility Centers as per

unit Tribal population size on mortality number (death rate) of pregnant women of Tribal

**Keywords:** - Health quality, pregnant women death rate, Tribal community, mortality number, Medical Facility Centers, influencers, neutral relationship.

Health is a state of complete physical, mental and social well being and not merely an absence of disease of infirmity

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Special Issue, Volume-III "Interdisciplinary Flew on Socio-Economic Educational, Management, Enricomental Research, Languag

### कोविड- 19 चाभारतीयअर्थव्यवस्थेवरीलप्रभाव प्रा. प्रविणकुमार एम. लोणारे

सहाय्यक प्राध्यापक, अर्थशास्त्र विभाग, भवभूती महाविद्यालय, आंगगांच् जि. गोंदिया (महाराष्ट्र)

गानवासः अञ्चल करोना विश्वल् पुन्ने संपूर्व जम अदयमीत आहे. सहुतांत्र देवानी आर्थिकस्त्रेद्धीशानेनी दिवन मेत आहे.कविट-19 जियान्या मोद्देशा प्रमाणान होनाम संग्री रोकण्यासती जगामणे लाकडाव्य साराजा उपायंत्रा वाम उत्पायकासा आहे. लायुक्केदेतांत्रांत्री उत्पादर सेवा आणि उद्योग मंद काण्यात आलेती आहेत. त्यानं आतार्थात होन महायुद्धे अनुभवनंती आहेत. परंतु लायुक्केद्रियान्ये काहीदोसास्थाणी झाले नकहो. लायुक्केतियानी अर्थव्याच्या आणि नार्यायक सुर्वित होते. अर्थात त्यानेव्यं अर्थव्यवस्थेने वाणीककित्यण मोद्द्या प्रमाणाय झालेती नकहो.

- गकरो. 2. कृतीवर प्रमान कृत्रो क्षेत्रासादो मंत्रा घटका या स्रोतेनमुळे बास्ता आहे. संशास विकास पान वर्गा होत असतामा वासेभ्राच्या आचि प्रजामी पाणांकी परंतीय. देशासून मात्रे आणि कोळंबीचीही महेत्रा प्रमानत निर्मत होते. स्रोतेमसंस्थात पासस्तेल्या अम्प्रतांचा सर्वात मंत्रा प्रदेश पोल्ट्री व्यवसायास बाससाय. या व्यवसायास समझ वानस्य ४०० कोटी स्थापंचा षटका

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# Schools, College and Learning: The Impact of Covid-19 on Education Pravin M. Chandragiriwar Mrunali S. Lilhare Assistant Professor, Bhawabhuti Mahavidyalaya, Amgaon Dist-Gondia (M.S.) India

Assistant Professor, Bhawabhuti Mahavidyalaya, Amgaon Dist-Gondia (M.S.) india Abstract
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Keywords: Education, COVID-19, impact, Govt. of India, digital

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All countries, the educational systems of schools, colleges and universities in India are to be total closure. Almost governments decided to temporarily close educational institutions in an attempt to reduce the spread of as of 12 January 2021, approximately 825 million are currently affected due to school, colleges closures in response to the pandemic. According to monitoring, 23 countries to currently implementing instructions are currently affected due to a currently implementing instruction and approximate the control of the world's student population. 112 countries schools are currently open. On 23 Mary percent of the world's student population. 112 countries schools are currently open. On 23 Mary percent of the world's student population. 112 countries schools are currently open. On 23 Mary percent of the world's student population. 112 countries schools are currently open. On 23 Mary percent of the world and the schools are currently and Cambridge Or Luriversities examinations for the May and June 2020 series across all countries. Exams have also been cancelled. In addition, Exams, administrations, and administrations have been moved online and cancelled.

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Objectives
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Data and information presented in present study are collected from various reports prepared by rational and international agencies on COVID-19 pandemic. Information is collected from various authentic websites. Few journals, e-contents relating to impact of COVID-19 on educational system seasons.

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The government has provided you with c-learning program. Educational Technology companies have titled to force the occasion by providing free on-line lessons or cagaging limits on e-learning modules. This measure have been met with overwhetming response by college students with new companies witnessing as excessive as 25% uptick in e-learning Study appears a viable reply for college kids throughout this time as they provide handy, on -- the-go and reasonably priced entry to college kids throughout this time as they provide handy, on -- the-go and reasonably priced entry to classes. E-learning comes as an attention-grabbing and interactive various as in comparison with classroom educating. Pandemic situation has prompted specialists to rethink the traditional mode of training. Online training seems to be a viable reply for make up for within the shortfall for classroom training for a interval of three to 4 months whereas limiting the probabilities of any an infection to college students until course resume. Significantly, it has additionally introduced the hitherto peripheral problem of digital training in India to the middle stage. Online training is more likely to be until to the middle stage. Online training is more likely to be until in into mainstream training. Allow inclusive training by encoraging studying throughout various geographics in our country, India. Moreover, it's going to present an outdoor for educators to apply you with castom made studying solutions for each people.

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Research, Language and Sustainable Development in Covid-19 Pandemic Situation'

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# Role of Innovative Technologies during the pandemic situation

Bhaskar Y. Kathane<sup>1</sup>, Pravin M. Chandragiriwar<sup>2</sup> Bhawabhuti Mahavidya laya Amgaon, Distt-Gondia (MS), India. bykathane@rediffmail.com, pravinchandragiriwar@gmail.com

Abstract: The scope of this paper includes the use of innovative technologies during pandemic situation. In India many devices are invented such as ultraviolet sanitation tunnel, Hands-free door openers, digital payment, temperature measuring devices etc. Here we observed the technology always useful to control the situation. Technology innovations have been helping in managing the pandemic in a timely, systematic, and calm manner. The present innovative technology supported the positive role of digital technologies in maintaining meaningful social relationships even during an extreme situation such as a lockdown. The technology available nowadays allows people to stay in contact with others in innovative ways. In this paper we elaborate the working of innovative technologies and there utilization.

Keywords: Innovative technologies, digital payment, sanitation, Corona, pandemic etc

Innovative technologies developed during the pandemic situation and play a crucial role in society. During lockdowns and quarantines and these technologies may have a long-lasting impact in future? Here we observed the technology trends that can help build a flexible as well as considerations about their effects on how we do business, how we trade, how we work, how we produce goods, how we learn, how we seek medical services and how we entertain ourselves. Following are the useful

learn, how we seek medical services and how we entertain ourselves. Following are the useful innovative technologies invited by the scientist during pandemic situation for the society.

Hands-free door openers

Corona virus can live on surfaces like stainless steel for three days, so these devices could be a game-changer in environments such as hospital wards, restaurants, cinema halls, and malls etc where hand sanitation is an essential work to remove the corona virus. Several varieties of hygiene-friendly doorhook are in the pipeline to protect from virus when we need to open doors with sanitized hands. Electronic media develop the sensor based door that open automatically when any object in front of object. This technique removes the contact with the surface and avoids the spread of the virus on metal material.

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Cash might carry the virus, and in our country people not believe the digital payment due to digital technology and face to face contact. Now, contactless digital payments, either in the form of cards or e-wallets, are the recommended payment method to avoid the spread of corona virus. Digital payments allow the customer to make online purchases and payments of goods, services and even utility payments, as well as to receive required funds faster. The availability of digital payments also depends on internet availability, devices and a network to convert cash into a digitalized format and transfer to the receiver account. depends on internet avanaous, transfer to the receiver account.

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Many hospitals and restaurants are ramping up their development of robot deliveries. Robot delivery services become common delivery, companies need to establish clear protocols to safeguard the hygienic condition of delivered goods. Robot deliveries mostly use in hospital during pandemic situation. Recently robots have been used to disinfect areas and to deliver food to those in quarantine.

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During pandemic situation many web series launched by the Entertainment network and easily
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Work from Home

\*Alchie Wangmay UGC Care Listed, International Research Journal, ISSN: 2229-4079, Journay 2021 Special Issue, Volume-III. \*International Journal Special Issue, Volume-III. \*International Journal Journal

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percent of the world's student population. 112 countries' schools are currently open. On 23 March
2020, (CIE) released a statement announcing the cancellation of Cambridge IGCSE, Cambridge
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Objectives

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### INDUCTION OF MUTATION BY GAMMA IRRADIATION AND EMS IN CAJANUS CAJAN. L.

Mundeep G. Awaley
Department of Botany, Bhawabhuti Mahavidyalaya, Amgaon, M.S., India. mundeepawaley@rediffmail.com

Communicated: 12.12.20

Revision :15.12.20 & 29.12.2020 Accepted: 13.01.2021

Published: 30.01.2021

ABSTRACT:
The plants of Cajanus cajan were grown in plots from seeds obtained from Krishi Vigyan Kendra, Gondia. The well developed seeds of same age will be selected and will be subjected to gamma irradiation doses. Prior to the mutagenic treatments, all genotypes were grown for one generation to ensure their homozygosity. The well developed seeds of same age were selected and subjected to gamma irradiation doses of 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100 and 1200 Gy [Gray] (60 seeds for each treatment in four genotypes). Gamma irradiation will be carried out at at room temperature [22 - 29°C) in a Cobalt 60 gamma cell-220 of 381.43 curle strength delivering 29KR/hr at the time of irradiation. For EMS treatment, the seeds were presonked in sterile distilled water for 6 hours and then treated with different concentrations of EMS (10, 20, 30 and 40mM) for 8 hours. The mutagen treated and control (untreated) seeds were sown in the field in randomized block design (RDB), with three replications. The seeds of all individual M, plants were harvested separately and they were sown in the field during the next Kharif to rise M<sub>1</sub> generation.

Key words: - Cajanus cajan, Gamma irradiation, EMS.

Cajanus cajan L. (Millsp), commonly known as Pigeonpea or Red gram, is an important legume crop widely used as food and fodder and is a major source of vegetable protein. Pigeonpea is an economic source of not only protein but of carbohydrate, minerals and Bcomplex vitamins particularly in vegetarian diet (Salunkhe et al., 1985). Pigeonpea, being a self-pollinated crop, the available genetic variability has been almost exploited for improvement by conventional breeding methods. Therefore it becomes necessary to creat genetic variability through induced mutations. Induced mutagenesis has been used very widely in crop plants to creat genetic variability in traits of economic value. Chlorophyll mutations are one of the important criteria to determine effectiveness of the mutagens. According to Mille(1968), in spite of impaired seed production, the chlorophyll mutants are potentially useful in understanding of different physiological functions, various biochemical reactions and pathological invasion. Although mutagens bring about changes in nucleotide sequence of DNA, the mode of action of each mutagen is distinct. More ever, a mutagen may effectively bring about mutations, but the accompanying undesirable effects like lethality or sterility may decrease its efficiency. Thus in order to exploit induced mutagenesis for crop improvement, the basic studied effectiveness and efficiency of a mutagen in a crop are necessary (Badere and Chaudhary, 2007). The literature reveals that the mutational work on pigeonpea has been scanty. In the present investigation, efforts were made to assess the effect of different concentrations of EMS and different doses of gamma irradiation on Pigeonpea to find out

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# Sulbasūtras and Approximate Value of $\sqrt{2}$

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Abstract: Śulbasūtras was the oldest mathematical text found in India. The Śulbasūtras contain rich principles of mathematics, basically of 'geometry'. The outstanding feature of Śulbasūtras is consistency and completeness of geometrical results and application of these results in actual construction shows that

Sulbasütras have deeper significance. Following statement in Sulbasütras has great importance because it covers the idea of properties of square. Further it covers the idea of irrational number  $\sqrt{2}$ .

चतुरस्त्रस्याक्ष्णयारज्जुर्द्धिस्तावतीं भूमि करोति ।

prgiL=L;k{.k;kjTtqk}Lrkorla Hufe dj"fr A

Meaning: - "The diagonal cord of a square makes double the area".

Śulbasūtras stated the value of  $\sqrt{2} = 1 + \frac{1}{3} + \frac{1}{3\times4} - \frac{1}{3\times4\times34}$ 

In this paper contain how Indian mathematicians obtain the value  $\sqrt{2}$  and the geometrical proof for formula  $\sqrt{2} = 1 + \frac{1}{3} + \frac{1}{3 \times 4} - \frac{1}{3 \times 4 \times 34}$  Hence this value is practically useful and reliable for the geometrical constrictions.

Keywords:- Śulbasūtras, Śulbasūtraskāras, Karaṇī, Approximate value of √2

# I. INTRODUCTION

Baudhāyana, Āpastamba and Kātyāyana Śulbasūtras stated the value of  $\sqrt{2}$  in combining two squares of equal areas, in this case square has side  $\sqrt{2} a$ . The diagonal of a square of side a is  $\sqrt{2} a$ 

समस्य व्यकरणी । प्रमाणं तृतीयेन वर्धयेत् तच्चतुर्थेनात्म चतुसस्सिशोनेन सविशेष

lel.; findj.lh A प्रमाणं तृतीयेन वर्धयेत् तब्बतुर्थेनात्म चतुसस्सिशोनेन सविशेषः The measure should be increased by one third of itself which again is increased by its one fourth and diminished by 1/34th of that (second) increment.

$$\sqrt{2} = 1 + \frac{1}{3} + \frac{1}{3 \times 4} - \frac{1}{3 \times 4 \times 34}$$

diminished by  $1/34^m$  of that (second) increment.  $\sqrt{2} = 1 + \frac{1}{3} + \frac{1}{34} - \frac{1}{344} - \frac{1}{34454}$  By this method  $\sqrt{2} = 1.414215$  used in finding the diagonal of a square. The Sanskrit term for the surd is  $Karanj\bar{i}$ . According to Śrīpatī (1039) "The number whose square-root cannot be obtained (exactly) is said to form an irrational quantity ( $Karanj\bar{i}$ )". Literally  $Karan\bar{i}$  means "making one" or "produce one". Indian used various methods to obtain approximate value of surds using algebra. In this paper we will discuss two methods of finding the approximate value of surds. All these methods show that the Indian Mathematicians knows the importance of finding the approximate value of surds. In the second century of the Christian era, Umāsvāti (150 A.D.) treated the term "mūla" (root) and  $Karani\bar{i}$  as synonymous.

Karanī as synonymous

# II. Approximate value of √2 in Śulbasūtras

In Indian mathematics the value of  $\sqrt{2}$  was first observed in Baudhāyana and Āpastamba and Śulbasūtras. For the given square of side a, Baudhāyana and Āpastamba obtained the side d, of a square whose area is double the area of given square. This value of  $\sqrt{2}$  was stated as "Increase the measurement (of which dvi-JETIR2102089 | Journal of Emerging Technologies and Innovative Research (JETIR) <u>www.jetir.org</u> | 759

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### Roots of a number

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## Abstract

To find a square root of a number which is perfect square in similar way to find a cube root of a number which is perfect cube we have to make some mathematical operations but we may solve such problems by observation. In this paper the analysis of square of number and cube of a number is made. This analysis results to find a square root of a number which is perfect square or cube root of a number which is perfect cube. Such a discussion may be extended for fourth root or fifth root of a number.

Key words:- Square root Cube root Fourth root

### I. Introduction

There is a method of finding prime factors when we have to find out the square root of a number which is perfect square number, cube root of a number which is perfect cube number and fourth root of a number which is perfect fourth power of some number. Sometimes this method is difficult to find various root of a number. In this paper some facts are discussed so that we can find various root of a number by observation. These facts and observation are easy and logical to find various roots of a number.

## Square Root of a perfect square number

In traditional method to find square root of a number we find the all prime factors of a given number. Then we write it as product of square of each prime factor separately. Then selecting one-one factor from each term we obtain square root of a number which is perfect square.

### Some Observations in finding Square Root of a perfect square number

- 1) Square of two digit number contains three or four digits. Similarly square of three digit number contain five or six digits.
- 2) The squares of first nine natural numbers are 1, 4, 9, 16, 25, 36, 49, 64, & 81.are digits at unit place. Hence no perfect square number has 2, 3, 7 & 8 at its unit place.
- 3) Square of 1 and 9 has 1 at its unit place. Square of 2 and 8 has 4 at its unit place. Square of 3 and 7 has 9 at its unit place. Square of 4 and 6 has 6 at its unit place. Square of 5 has 5 at its unit place.
- 4) Conversely for any perfect square number, digit at its unit place and 'digit at units' place' of square root are related as follows

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# High Technology Letters

# Removal of Hexavalent Chromium By Using Newly Synthesized 4-HAMF-II Terpolymeric Resin

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A novel 4-HydroxyAceophesone-Malanian-Pormaldohydr(4-HAMF-II)perpolymenic resis has been prepared by condensation of 4-HydroxyAceophesone(4-HAA, Medanian(M) and Fermildohydr(F) in 2:1:3 molar ratio using 2M HCI as a castlyst and was proved to be a good absorbers for removal of Cr(VI). The characterization and the structural elementary of the prepared responsive were confirmed by alternated analysis, FFIR, XMD, TOA and H-MAMS spectral station. The metal removal properties of the trapolymer were confided by basch equilibrium marked. The effects of various parameters like contact inc., initial absorbant, concentration, pill and 4-HAMF-II flower have also been statistic and represent. The adoption data were found to fit well with the Language and Fercentile information models. The process removal of Cr(VI) has been side united by the contact removal of Cr(VI) from the model of Cr(VI) flower models of the properties of the properties of the properties of Cr(VI) from the model using 4-HAMF-II. The resolution revealed that the trapolypariar usin a adsorber opported in this article is effective for removal of Cr(VII) from wastewater and thus one be successfully used for control of chromium pollution.

L Introduction

Conoxism is toportant element in periodic table, in nature, Cr is mortly found in the form of complex cabiisomorphic mineral called spinel. Trivalum chromiters occurs naturally in many vegetables, fivile, neer, guides and often added
to vitamize as dietays insplication, whereas chromiters (VI) is most oftenly produced during industrial and mining processes.

Chomor pitals is used in the succonditio parts such as bampars where Cr is applied electrolytically(1), Industrial application of
chronizam composads which cause water policities are electropisting, sutth firmithing, suspects expert, pignaces, better
maning, wood prototice, chemicallymen manufacturing, catalyne, discrincial and electrodic cappenan(2). Water reducts
C(VI) is mitutizing and testic to human body tissue eving to its excitating potential and easy permething of the manufacturing of the date to lever demange, purisessary competitions, societies and disk institution unstabling in where forestance(4). Exposure or extensive inhalation of C(VII) his been found to develop disorter like of demantals, guartic causer and
perfectation of the manul septam is workering(5). The usual methods for recoved Cr(VI) from oppose entitless, include charical
relation, usero filtration, bisuccastations, ince suchange and adaption on entitle intervolvely plantacely carbon materials (6).

Descrete these approaches are not con-effective and difficult to implement in two-hopinglander-depel countries. Bis-cooption
a technically feasible and economical process has gained lacroased creditability during recent years(7).

Terpolymer resine new a days have wide mage applications like adhesives, returdares, bioders, dyes, fungiciders, shaugans, biosectors, reversible electrical cell, surface conting meretal, solve cells and high entiring disclor overill. A admining archer for most life curricules has also been smoothly. The preserce of protest study is to explore the lose behavior of chroniane on newly synthetized sprolymer-4-HAMPL at different condition. The present study death extension and characterization of 4-fAMPLE by spectral method for first time. One of the important application of all topolymer is their capability to recover metal from westerwise.

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१८. संत साहित्यातील भक्ती विचार

प्रा. सी. धनश्री राणे

गृहअर्थशास्त्र विभाग प्रमुख, भवभूती महाविद्यालय, आमगांव.

भारतात व विशेषतः महाराष्ट्रात प्राचीन मराठी वाङ्मयाच्या कालखंडात धर्माची सेवा करणारी जी श्रोर मंडळी जन्माला आली; त्यांनी भक्तिमार्गाचे फार मोठे कार्य केले. धर्म हा लोकाभिमुख असावा असा एक न्ता विचार बाराव्या—तेराव्या शतकाच्या सुमारास भारतात व महाराष्ट्रातही सर्वत्र फोफावला. संस्कृतमधील धर्मविचार सर्वसामान्यांच्या भाषेत आणला पाहिजे, ही प्रेरणा त्यातून मिळाली व ती देशभाषांतील वाङ्मयाच्या निर्मितीस कारणीभूत ठरली. मराठीच्या प्रारंभकाळातील वाङ्मय महानुभाव, वारकरी व नाथपंथाच्या अनुयायांकडून लिहिले गेले. महानुभाव हा एक हिंदू धर्मातर्गत धार्मिक संप्रदाय असून हा संप्रदाय महाराष्ट्रात इ. स. च्या १९ व्या शतकाच्या उत्तरार्धात उदयास आला. त्याच सुमारास वारकरी संप्रदायही अस्तित्वात आला. महानुभाव संप्रदाय व बारकरी संप्रदाय दोन्ही भगवद्गीता व भागवत या ग्रंथांचे प्रामाण्य मानतात. दोन्ही भक्तिसंप्रदाय असून दोन्हीत भक्तिप्रेमास प्राधान्य आहे.

स्वामी चक्रधर, त्यांचे अनुयायी व संत ज्ञानेश्वरादी संतांनी मराठीची निवड केली ती लोकसंवादासाठी ! लोकजीवन उन्नत व्हावयाचे असेल तर लोकभाषेला धर्मभाषेची प्रतिष्ठा मिळाली पाहिजे. त्यामागे जनसामान्यांविषयी जिव्हाळा होता. लोकांशी संवाद साधण्याची ओढ होती आणि भक्तिप्रेमाच्या प्रसार प्रचाराची जिद्द होती. तत्कालीन संतमंडळींनी त्या स्थितीगतीला जरुर ती गरज अध्यात्मनिष्ठेने पुरविली. याच कालखंडात भक्तीची लाट उसळू लागली; भक्तिरसाला उधान येऊ लागले.

भक्तीचा महत्वाचा विशेष म्हणजे ती कर्मप्रधान आहे. सर्वसामान्य संसारी माणसाला संसारात राहून ही भक्ती साधता येते. एवढेच नव्हे तर स्वत:ची कर्तव्य कर्मे करण्यातच ही भक्ती सामावलेली आहे. आपापले उद्योगधंदे दक्षतेने व प्रामाणिकपणे करणे हाच मोक्ष होय. वारकरी संप्रदायातील गोरा कुंभार, सावता माळो. चोखामोळा, नरहरी सोनार, जनाबाई अशा भक्तांनी श्रम करीत करीतच विठ्उलपूजा बांधली. त्यांनी लौकीक जीवनातच भक्तिप्रेमाने अध्यात्म शोधले. बहुजन समाजाच्या सुखदु:खाचा अनुभव घेत वारकरी संप्रदायात नामाळाच देवत्व आणुन देणाऱ्या, उत्कट भक्तीने रसरसलेल्या भक्तिकाव्याचे अनुकरण करीत सर्व संतमेळा वाल् लागला

समाजात भक्तीचा, ईश्वरप्रेमाचा प्रसार व्हावा, सर्व सामान्यांनाही भक्तीची गोडी लागावी यासाठी साऱ्या संतानी भक्ती हे परमेश्वर लाभाचे सर्वात सुलभ साधन म्हणून स्वीकारले. यासाठी यम—नियमादींची आसन—प्राणायामायी काहीच आवश्यकता नाही असे प्रतिपादन केले. प्रत्येक मनुष्याच्या ठिकाणी उपजतपणेच वसत अग्रणाऱ्या प्रेमाला इतर सर्व विषयांपासून कावृत पेऊन ते परमात्म्यावर केंद्रित करणे याचेच नाव भक्ती.

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### SUNLIGHT MEDIATED PHOTOCATALYTIC DEGRADATION OF RhB BY BIOCI/Fe PHOTOCATALYST

### N. D. Vilayatkar<sup>1</sup>, P. K. Rahangdalo<sup>2</sup>, R. S. Ukare<sup>3</sup>, S. S. Shende<sup>4</sup> & R. R. Kurzekar

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Abstract
Starlight mediated photocatalytic degradation of rhodomine B (RhB) dye was statied using chemical exprecipitation (CC) neathed using BiOCJFe (7 - 50°C ) photocatalyte. BiCLywas used on the starting mane-siral along with hydrocleotion exist in the chemical exprecipation of BiOCJFe. The photocatalytic behavior of the prepared BiOCJFe was stand through the degradation of RhB dye. The photocatalytic behavior of the proposed BiOCJFe was tested through the degradation of RhB dye. Biochemical and the photocatalytic degradation of RhB dye. The photocatalytic degradation of RhB dye was a start of the photocatalytic degradation of RhB dye were investigated. An actual stratile efficient containing RhB at a rhod dye and period guasilization was trateed using demined on practication synthesized BiOCJFe. The reduction in the chemical oxygent demand (COO) of the treated efficient revealed at complete internediations of the organic molecules. It was found that photocatalytic degradation of fleshnims B from appears solution by BiOCJFe is an effective, converted and environment friendly.

### 1. Introduction

1. Introduction
1. a view of planetary energy stillation, the development of semiconduster photocatalysts for organic pollutant degradation and water splitting is a challenging and indispensable topic of modern research [1]. Rodamine B (RdB) dys is an organic chierdo sult having N-[9-C-acthoxypheny)-defertlytamine)—Havandhea-y-Solessyl-N-chylothastoriums, in: Call-1CNO, is not contare in and widely used in industrial purposes, such as printing and dyeing in teatile, paper, paints, leathers to of only that is also used to determine the axis and discension of flow. However, this dye can be not only that is also used to determine the axis and discension of flow. However, this dye can be not only that is also used to determine the axis and discension of the production of the size of the control of the control of the size of the control of the control of the size of the control of the c

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### Synthesis, Characterization and Application of 4-HAMF Terpolymeric Resin

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A novel 4-HydroxyAcetspheasen-Melanins-Formuláchylsi(4-HAMF) terpolymeric rasin has been prepared by condomation of 4-HydroxyAcetsphemes(4-HAMG) interpolymeric fermidáchylsi(1-HAMG) in 1-12-mber 1

### 1. Introduction

Many industrial wante streem may occusion heavy metals such as Cd, Cr, Ni, Pb etc including the waste liquids generated by metal finishing or metal processing industries. Cafminas considered as hexardous pollutant due to their toxicity, even at low concentration and non-biodegratability, Increasing level of cafminas in natural water bodies passe serious problem to all living species including humans. It is therefore no reduce concentration of cafmina in mit ethicaristy-subservative before it is discharged into the water bodies'. Cadminas is mare and uniformly distributed element in the earth crust with an average concentration of 0.15 to 0.20 mpkg. It occurs in the form of merganic compounds and complexes with chelsting agent. Cadmina for compounds and complexes with chelsting agent. Cadmina and incompounds are does und in parising piperane, plactice, electroplating, outgoiners, machineries, balang chemists and pholography. It was mentil quantity of Cd assimilation by the body can be compounded and complexes of the compound of the compoun

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# DIVERSITY OF MEDICINAL WEEDS OF GONDIA REGION

Sakshi Sharma and Mundeep G. Awaley Department of Botany Bhawabhuti Mahavidyalaya, Amgaon, India

# Abstract

The present work has been undertaken with an aim to account traditional and pharmaceutical uses of weeds found in Gondia region. The present work has been carried out during December 2019 to march 2020. During this period several visits and field trips undertaken and more than 15 localities have been visited. Total 27specimens collected from different locations of the Gondia District. Some of them visited frequently during the documentation. Identified specimens were confirmed by matching them with authentically identified species deposited in the herbarium, Department of Botany, Bhawabhuti Mahavidyalaya, Amgaon. Herbarium sheets were prepared by employing standard universally accepted method. Properly identified plant specimens have been deposited in the herbarium of Department of Botany, Bhawabhuti Mahavidyalaya, Amgaon.

## Key Words: Pharmaceutical, Documentation, Gondia region, 27 specimens. Introduction

Generally weeds have been neglected and their use for medicinal purpose has not been considered on a large scale. For the progress of human being the plant resources play an important role they fulfill many needs such as food, fuel, fiber and medicine. Every plant on this planet is useful in medicine, industry and allopathy.

Since the pre-historic society man has been in way to search the cures and relief from physical and mental illness by using numerous plants and plant derived products. Biodiversity is the basis of human survival and economic well-being and constitutes the resources upon which families, communities and future generations depend. India is extremely rich in medicine plant diversity distributed in different geographic and environmental conditions and associated tribal and folk knowledge systems.

Gondia district has a rich biodiversity of plants. By keeping this view, the present work has been carried out.

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Evidence of magnetic dilution due to unusual occupancy of zinc on B-site in NiFe2O4 spinel nano-ferrite

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the substitution of Zn ions gives paramagnetic doublet a crease hyperfine field at A and B sites. The study also too, Yafet-Kittel angle, coercivity (RL), remnant reserved

Ferrites, the composite Fe<sub>2</sub>O<sub>2</sub> materials catch the recognition of many research scholars because of its distinctive microwave, electro-suggestic properties et and see extensively willinged for high-frequency applications [1]. Amongst different ferrites the M-type Ba and St-beacherines meaning of the second crystalling attention allows the electronic equipment operating at requency of 10<sup>3</sup>. He and above for high-frequency operating at requency of 10<sup>3</sup>. He and above for high-frequency operating at requency of 10<sup>3</sup>. He and above for high-frequency operating at the present experiment of electronic equipment operating at the complex of the second control of the second cont

drug carrier, hyperthemia, MBI, heating the cancer cells in human body-cit. (§1, la general, the spinel ferrites have close specked cultic structures that belongs to space group symmetry Platin [5]. The crystal structures formula of spinel ferrite is expressed as 88<sup>2</sup>Te<sup>2</sup>[50, and has two inter-stitial sites visc tertahedral sites (a). And orchardenal sites (B) filled by metal ions 16,73. The properties of spinel ferrites can be significantly altered on the volutorization of various acions into these aisses and motivate the magnetic materials to enhance its vide range of applications [15]. In the spinel family, shelled ferrites are eye-carching and extensively studied due to its distinctive and fusicinating properties [10]. If the pa-paramagnetic [11]. In definity the properties of ferrites, sinc plays a vital energodical and control of the spinel size of the spinel spinel compositional clumpage ras he curried on [12]. With the undustration of normagnetic ions like size or expect in riched ferrite, its magnetic properties are desirably modefield due to the endictivitation of ions in A and 8 sizes [13]. In Ni-Za ferrites, even zize and nickel have their strong

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या जार योग्य उपयोग केला तर ते भंगास्त्र साठी

### निष्कर्ष

१. वाचन संस्कृती वाढविण्यासाठी आलेल्या उपकम हे खुपच यशस्वी झालेले आहे या सर्व उपकम या विद्यार्थी वर सकारात्मक परीणाम झाला आहे व विद्यार्थी वाचनाकडे आर्शित झालेला आहे. कोविड—१९ या संसर्गजन्य रोगासाठी सुध्दा विद्यार्थी ई संसाधनाय उपयोग कयन आपली वाचनांची भूक भागवत आहे

- २. विद्यार्थी मध्ये ग्रंबालयाविषयी आकर्षण निर्माण झाली याचा परिणाम विद्यार्थी साहित्य पुस्तक वाचनाकडे वळले.
- कात्रण सेवाचा उपयासेग स्पर्धा परीक्षा व त्यासमुळे विद्यार्थी वर्तमान पत्र वाचनाकडे वळला. ४. या मधन विद्यार्थांचा वाचन गरजा अभ्यास

# संदर्भ सूची

१. सतीश पोरे. वाचन संस्कार, पुणे, पद्गंधा

२. गभाने, धनंजय (२०११) शैक्षणिक प्रंवयातील

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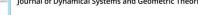
> सौ. प्रज्ञा अरविंद भगत भवभृती महाविद्यालय, आमगाव

२१ च्या शतकामध्ये माहिती विस्पोट ने अवधे प्रंबालय विश्व झपारून गेलेले आहे, वाचकाच्या वाढत्या गरजा, संसाधनाची वाढती संख्या यामुळे ग्रंबालयाला उदयाला ठेवणे एक आव्हान ग्रंथपाल व कर्मचारी पांच्यापुढे निर्माण झाले आहे. या लेखामध्ये नवनवीन ई संसाधने याची माहिती तसेच त्यांचा उपयोग व त्यांचा वचकावर परिणाम यावर चर्चा केली गेली आहे, अश्याप्रकारे आपण नवीन साधने वापरून वाचक यांना अद्यावत ठेऊ शेकतो, याचा उलगडा या लेखामध्ये करण्याचा प्रयत्न केला आहे. याकरिता काही ग्रंबालयाच्या सेवेची काही उदाहरणे सुध्दा दिली आहे. वाचकाच्या वाढत्या गरजा पूर्ण करणे हा एकच हेतू या लेख मागे स्पष्ट होत आहे. महाविद्यालय ग्रंथालय

महाविद्यालय ग्रंबालय हे शैक्षणिक ग्रंबालयाचा एक प्रकार असन यामधील वाचक हे इतर गंतालयाच्या ाचका पेक्षा वेगळे आणि ज्ञान पिसासू असतात महाविद्यालय ग्रंबालय च्या वाचकांना कमिक पुस्तके, संदर्भ पुस्तके, नकाशे, वर्तमानपत्र, मासिके व संशोधनपत्रिका याची गरज असते.

ग्रंथालय व्याख्या :- डॉ. एस.आर. रंगनाथ याच्या नुसार Library is a trinity of books, readers & staff. म्हणजे ग्रंव, वाचक, अणि ग्रंवपाल हि त्रिमूर्ती केंद्रास्थानी िविद्यातार्वी: Interdisciplinary Multilingual Refereed Journal (ImpactFactor/7.940(IIJIF)

# Journal of Dynamical Systems and Geometric Theories



## Role of Digital Root in Number Theory

Sanjay Deshpande & Rishikumar Agrawal

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# **Development of Virtual Experiment on Digital Modulation Using** Virtual Intelligent SoftLab

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# ABSTRACT

The scope of this paper includes development and implementation of virtual lab for Digital Modulation. The study of Digital Modulation is important in Electronics, Computer Science and Engineering Streams. The Digital Modulation experiment can be easily performed using the concept of virtual Intelligent SoftLab (VIS) model. The virtual experiment described here will help students to perform it anytime and anywhere 24x7. The screen shows the Characteristics of Digital Modulation and generates the related outputs for the given inputs. There is a facility for change of Input values using virtual instruments and observed the outputs with virtual Instrument. In this paper we check the characteristics of Pulse-Amplitude Modulation (PAM), Pulse-Width Modulation (PWM) and Pulse- Position Modulation (PPM) using virtual instruments. The effect of Digital Modulation is visible on the screen.

Keywords: SoftLab, Digital Modulation, PAM, PPM, PWM, Virtual Lab etc.

# I. INTRODUCTION

The concept of VIS (Virtual Intelligent SoftLab) Model is an experiment is to provide a virtual platform for all learners to perform the experiment with the virtual platform with the software. The effort is towards the working procedure in a traditional laboratory and its environment in the virtual workbench. Virtual experiments are designed and organized in such a manner as to give a real feel As a part of the SoftLab project, we have explained of performing the real experiment. During the the various issues involved in the design, experiment, the learner and the teacher can save and edit the desired data for his/her analysis. Apart from Electronics, Computer science and engineering these the focus is also aims to implant a maximum

experiments. Virtualizations of experiments could be largely classified, based on the form data used for performing the experiment. The Soft Lab idea facilitates us to link the physical laboratory experiment with its theoretical simulation model within an integrated and interactive environment. The goal for each instance of a SoftLab laboratory is to create a software environment where experimental research, simulation and education with each other, development and execution of SoftLab model for learners. This model describes how the SoftLab number of learning components in virtual philosophy was used to design and executed. The VIS © 2021 JETIR September 2021, Volume 8, Issue 9

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# Shehu Transform for Solution of Some Integral **Equations**

Nitin D. Dhang

Assistant Professor Department of Mathema Bhawabhuti Mahavidyalaya, Amgaor

Abstract Shehu transform was introduced by Maitama as a generalization of Sum du and Laplace transform. In this paper, convolution theorem and uniqueness theorem for Shehu transform is proved. Furthermore, both the theorems have been used to solve some integral equations.

Keywords: Integral transform, Shehu transform, Laplace transform, Integral equa

1. Introduction

Abel's integral equation have found to be very applicable in science and engineering such as determination of potentials, stereology, seismic travel times, spectroscopy and optical fibers. Also, integro differential equations model many situations from science and engineering, such as circuit analysis. Shehu transform introduced by Maitama[1] is found to be applicable in solving differential equations, Heat and transport equations, Electric circuit problems, Particular Abel's equation, Volterra integral equation of first kind[1,3,4,5]. The main purpose of this paper is to solve convolution type Volterra integral equation of first kind (1,0,4,6).

# 2. Preliminaries

**Definition** (1): The Shehu transform of the function f(t) of exponential order is defined over the set of functions,

$$\mathcal{A} = \left\{ f(t)/\exists M, k_1, k_2 > 0, |f(t)| < M e^{\frac{|t|}{k_1}}, if \ t \in (-1)^l \times [0, \infty) \right\}$$

by the following integral

$$\begin{split} \mathbb{S}[f(t)] &= F(\varepsilon, u) = \int\limits_0^\infty e^{\frac{-st}{u}} f(t) dt \\ &= \lim_{\alpha \to \infty} \int\limits_0^\alpha e^{\frac{-st}{u}} f(t) dt \end{split}$$

The inverse Shehu transform is given by

 $S^{-1}[f(s,u)] = f(t), \text{ for } t \ge 0$ 

(2)

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# Significance of Meruprastar

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Rishikumar K. Agrawal\*1, Sanjay Deshpande<sup>2</sup> at of Mathematics, Hislop College, Nagpur, Mahar <sup>2</sup>Department of Mathematics, Bhawabhuti Mahavidyalaya, Amgaon, Maharashtra, India

### ABSTRACT

In this paper we shall discuss a method of finding any power of any number without multiplying by it. The method is known as "Meruprastar". It is also known as "Pascal's triangle". In fact, before hundreds of years of Pascal the method was known and used in India as Meruprastar.

Keywords: Meru (mountain), Prastar (expansion), Meruprastar, Indices rule

### I. INTRODUCTION

A number multiplied by itself gives its square. We know the method of "Yavadunam" and the method of "Duplex" to find the square of a number directly without multiplying by itself. When a square of a number is multiplied by the number itself, we get the value of the cube of the number. We know the method of and the method of ratio to find the cube of the m

We shall discuss a method of finding any power of any number without multiplying by it. The method is known as "Meruprastar". It is also known as "Pascal's triangle". In fact, before hundreds of years of Pascal the method was known and used in India as Meruprastar. Its shape is like a mountain and so it is known as Meru (Mountain) prastar (expansion).

It is useful in finding the coefficients of the n-power of (1+x) means (1+x)n, (x+1)n and (x+y)n. It helps to find the values of different powers of integer numbers.

### II. DEVELOPMENT OF MERUPRASTAR

First, we place 1 in the middle. Now we consider zeros on its both sides. Now we add the adjacent integers and get 1 & 1, which we place in the second row. Now we consider zeros on both ends and add the adjacent numbers and place the additions in third row as shown below. Continuing the process of placing zeros on both ends and adding adjacent numbers we get the following structure. It is known as Meruprastar.

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## Study of Marketing Strategies of Cottage Industry

Dr. Pravin M. Chandragiriwar

Abstract
Cottage industry always had an important role in Indian economy. It helps to export and it provides most employment to rural youth after agriculture. In cottage industry products are produced at low level and work is done by skilled workers. Furniture, woods, bamboo products, products made from glass, khadi, handloom, handicrafts products are major part of cottage industry. Every state and region of India has some expertise in producing some special products. Kashmiri shawls are famous for their embroidery. They are products mainly produced by cottage industry. They are products need marketing and branding but cottage industry lacks financial support so they can not apply the marketing strategy of medium and large industry. Devened a paradigm shift in marketing. This paper aims at study the marketing strategies of cottage industry.

### Introduction

Introduction

Cottage industry is an enterprise where products are made mostly from home and workforce include members of family/limited numbers of wage earners. Products are produced at low level and work is done by skilled workers. Workers works in their house with their goods and instruments the instruments / equipment are generally outdated technology and low technology. They are produce consumable products through the use of conventional techniques and methods. Cottage industries generally unorganized in nature are mainly placed in rural areas and semi urban areas. Some cottage industries are very big and located in urban areas. Cottage industry has very important role in Indian conomy, it provides big contribution to the export and it is backbone of rural economy. It provides employment to rural people at large scale. Cottage industry facing problem of un availability of capital, labor, technology and marketing.

marketing.

- Objectives
  1. To study importance of marketing in cottage industry.
  2. To find out problems in marketing of cottage industry.
- 3. To make recommendation for marketing strategy for cottage industry.

Importance In industrial society Marketing is important aspect of every industry. Modern industrial society is highly competitive and Marketing help us to find out answers of some important questions. ety is highly competitive and Marketing help us to find out answers of some important questions like what customer wants, price of product, selling, promotion, advertisement, target market, etc. Cottage industries mainly consist.

1. Rural / village, 2. Khadi, 3. Handloom, 4. Handicrafts
Marketing efforts taken by Government established different organizations for development and promotion of cottage industry. Important organizations are –

1. Khadi village industries commission (KVIC)

2. All India handloom board

3. Central silk board

4. Coir board

5. Handicrafts conceptation

- Handicrafts cooperation
- National small industries cooperation

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# ROLE OF ICT IN E-COMMERCE BUSINESS EMERGING

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# ABSTRACT

Role of ICT in E-Commerce Business developing are inseparable terms as the e-commerce industry is absolutely dependent on ICT and e-commerce for its operations and intensification.

E-commerce is referred to as application of ICT in business and E-commerce. ICT is term which involves usage of computers, including hardware, software, application and networks used to communicate, store and cover the requisite information. The concept of e-Business has been evolving since a number of years and is causative to the economic growth of several developing economies. The approaching for the growth of e-commerce in the developing countries is very high but ICT being the precondition, lack of ICT infrastructure hampers the rate of its growth. The growth of e- commerce is primarily dependent upon the boost in ICT infrastructure. The Smart mobile phone market and Internet diffusion has proved to be a catalyst for growth of ecommerce industry. This paper focus to discuss the role of ICT and e-commerce its services in driving ecommerce industry in developing countries like India and the shift from e-commerce to commerce in large scale in the near future. Keywords: ICT; e-commerce; m-commerce, E- Business

Technology continues to be a transformative force and is changing the way individuals live, interact, and work. ICT are changed the future approach of doing business globally and the scenario is identical for India and other developing economies. ICT is very different term which involves usage of computers, including hardware, application, software and networks used to communicate, store and manage the requisite data. The applications of ICT are very varied and one such area is electronic commerce. Today e-commerce and computer has become an integral part of everyday life. Accessibility to e-commerce platforms is not a privilege but rather a necessity for most people, particularly in the urban areas. There are alternative e-commerce platforms available for almost every aspect of our lives, starting from purchasing of everyday household items to online shares and commodities. "e-commerce" is defined as the application of information and ICT which support all the activities and realms of business. The concept of e-commerce has been growing since a number of years and is causative to the economic growth of several developed and developing economies. The key factors responsible for the growth of e- commerce ICT is a leading one. ICT and e-commerce are inseparable terms as the e-commerce industry is absolutely dependent on ICT and commerce for its operations and intensification. The concept of e-commerce is very flexible and therefore covers all possible uses of information and communication technologies. ICT infrastructure and services is not a major issue in developed countries but for developing countries like India it sometime seems

# Development of Web-based Virtual Experiments for **Logic Gates**

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# Abstract

The scope of this paper includes development and implementation of Web based Virtual lab for Logic Gates. The study of Logic Gates is important in Electronics, Computer Science and Engineering stream to design and implements logical circuits. The Logic Gates experiment can be implemented on web-based virtual platform. The virtual experiment on Logic Gates described here will help students to perform it anytime and anywhere using smartphone. The screen shows the characteristics of logic gates and shows related outputs on the screen. There is a facility to change Input values as 0 and 1 using virtual inputs devices and observed the outputs using virtual device. In this paper we check the basic characteristics of Logic

Keywords: Gates, Logic Gate, Virtual Instruments, Virtual Lab, Virtual device etc

# 1. Literature review

Science subjects always have a component of practical. In subject like Physics and Electronics students have to perform a large number of experiments in an academic year. Many times students do not get time to repeat experiments which they have performed during the session. Also many of the laboratories lack in resources to perform experiments in which sophisticated instruments are required. Therefore to provide access to laboratory experiments, anytime anywhere, concept of virtual laboratory is being developed. This virtual laboratory can cater to students at under graduate (UG) and post graduate (PG) levels. Some software's like MatLab and LabView are available for simulation of experiments and for other purposes. However, these software's are generally available only in Institutes Laboratories and student can use them only during college hours. It is therefore decided to develop software for performing individual experiments virtually on mobile screen. In this laboratory an attempt has been made to develop software for electronics experiments from basic to advance level.

# 2. Introduction

The basic concept of Virtual Instrumentation is a practical experiment is to be performed on virtual platform for learners and researchers. Learners can design and implements their experiments with their own device like smartphone. Virtual experiments are similar to the real laboratory and it works on the virtual platform. Virtual experiments are designed and implements in such a manner as to give a real feel of performing the experiment. During the experiment on virtual laboratory, the learner can save and edit the desired data for his/her analysis.

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# MANAGE YOUR SUCCESS OF BUSINESS

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R.T.M.University Nagpur.

Abstract

The success of any business starts with how well you are able to manage yourself. Some useful tips for self management. Before you have even started your business, start developing a leadership vision. The responsibility for the growth you wish to achieve in your businesses, squarely lies on your shoulder. The benefit that is likely to accrue by implementing the decision and come out a winner. When you start a business, failure can be an important part of learning and growing. Unnecessary meetings, interruptions and inefficiency may sap you of your energy, leaving a little for the important aspects of business. Create an environment where people have the opportunity to increase their skills and are rewarded for doing so that.

To be succeeding in business today was been and for the same and the same and the succeeding in business today was been and the same and the s

To be succeeding in business today, you have need of to be flexible and have good planning and organizational skills. Many people start a business thinking that they turn on their are computers or open the doors and start making money, One and only to find that making money in a business is much more difficult than they are thinking. You can continue away from this in your business ventures by taking your time and planning out all the necessary stepladder you need to achieve success. Anything type of business you want to start, using the following nine strategy can help you be successful in your project.

### INDRODUCTION

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Tattva-Sindhu तत्त्व सिन्ध वर्ष १ अंक १

Introduction:

Research Methodology

sources.

INDRODUCTION

THE Government of India's Ease of Doing Business World Bank ranking has jumped to a respectable 77th place, meaning that the facilities accorded by the Government for the Entrepreneurs are getting better and better. Economist world over are predicting an upwing in the business scenario, in the soon-to-become super power India. The Start ups in India are also in the never before space, as they are getting support from the Government, Institutions and several NGO's too.

But in spite of all the good work the Start ups are attempting, there are glitches.

in their management practices, which they could well do by ironing out their rough edges. Here are some mantras for the Start Ups to sail smoothly and in order to scale up in their business

### TIPS FOR INCRESING A SUCCESSFUL BUSINESS.

- Get Organized: To achieve business success you require to be organized. It will be help
  you complete household tasks and stay on top of things to be done. On the good way to be organized is to create a to-do list each day. As you are completed each item, venfy it off your list. This will be ensuring that you are not forgetting anything and completing all the tasks that are necessary to the survival of your business.
- 2. Keep thorough Records:-By doing so that, you will know where the business stands financially, what possible challenges you could will be in front of the Just knowing this ne to time generate strategies to overcome all challenges.
- 3. Study Your Competition: Competition breeds the best outcome. To be successful, you can not be frightened to study and learn from you are competitors. After all, they may be doing something right that you can put into practice in your business to make more mon
- Understand the Risks:-The key to being successful is taking calculated risks to help your business produce. If you can answer this question are problems, then you know what the worst-case situation is. This knowledge will allow you to take the kinds of calculated risks that can generate wonderful rewards.

STUDY OF LPG-GAS DISTRIBUTION MANAGEMENT SYSTEM

Dr. Pravin M. Chandragiriwar Associate Professor (Commerce), Bhawabhuti Mahavidyalaya, Amgaon, Dist-Gondia R.T.M. Nagpur University, Nagpur (M.S.), Email ID:-pravinchandragiriwar@gmail.com

Introduced liquefied petroleum gas (LPG) as a suitable option energy source of natural gas for household consumers. As a installation of proper gas distribution system throughout the country is essential to ensure the optimum LPG consumption maintaining all safety. As per depicted domestic gas distribution , gas distribution network installation from the regional petroleum gas stations to consumer's premises, in lieu of thousands of separate domestic consumption layout, is the most suitable one. For example, imported LPG storage stations or crude

petroleum refining industries will act as regional petroleum gas stations from where (liquefied) petroleum gas will be distributed to consumer's premise through piping network. In addition to area domestic gas piping layout, several modifications in gas pipeline, gas stove and safety mountings at the domestic gas consumer's end are recommended to ensure the safe and efficient

Research is an attempt by applying scientific method for rational and practical solution of the problem. The search involving social fact theory or new knowledge is called social research, while selecting the subject of research, the scope of research, the need of society, recognition, personal hope of honour, is taken in to consideration . Most important necessities of human being are food, clothes and shelter, food is supplied by Agriculture and to cook, heat needs fuel. Man has made great stride in the production of fuel, by research and produced L.P.G. with the use of petroleum product. The Petroleum Corporation has signed agreements with private entrepreneur and used their capital, their distribution system to reach at grass root level.

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### STUDY OF EMPLOYEES' SOCIO AND ECONOMICAL PROBLEMS IN DOMESTI GAS DISTRIBUTION MANAGEMENT SYSTEM

Dr. Pravin M. Chandragiriwar Associate Professor (Commerce) Bhawabhuti Mahavidyalaya, Amgaon, Dist-Gondia R.T.M. Nagpur University, Nagpur (M.S.) Email ID:-pravinchandragiriwar@gmail.com/Mo. No. 9403867219

### Abstract:

Domestic gas (L.P.G.) distribution system has many workers serving over all India. Workers are necessary to organize, customer service and L.P.G. distribution to customer through distributor, appointed by corporation. Organizing of human labour, to complete particular job, is called labour force. The workers are classified in to two classes. Selection of workers, recruitment, planning condition, compensation, working condition staff service communication, training etc.. Role of direction helps to run business Government participation also helps the business many financial Institutes provide financial help for the development of business To know details of personal, economic, social condition of the workers selected for research L.P.G. distribution business is controlled under Research Methodology various laws. Information about the labour laws applicable to L.P.G. distribution business. Conclusions are drawn suggestions are recommended after the in deep study of Domestic gas (L.P.G.) distribution business

Introduction :-

I am curious about their life style, financial status, personal and social life hence I have selected the subject. Most of the working force in the distribution system is semi illiterate naturally they have inferiority complex fear of losing daily bread etc. Therefore it could not organize and resist the unjust behaviours of employer. The Present condition of Employees. Economic and Social problem. Economic income and expenses. Salary, bonus and allowances. Available facilities and concession Place in the society. Social and economic development. Such reasonable speculation of the (30%)

conditions of labour

The Hypothesis

"External element affects the social and economic condition of employee.

"Government interference affects the social and economic condition of employee

"The quality and training has co-relation with the socio-economic condition

The labour condition of the business is related with the condition of Employer.

"The labour remained satisfied of the income enough for dire necessities. "The workers are involved in heavy debt due to

illiteracy social tradition and religiosity. The people regarded with contempt the worker of this business

Primary source: -Stratified Random sampling method is utilized while collecting the information about the workers and business of domestic gas

Secondary sources : - Annual husiness Keyword - LPG Distribution, Domestic, Worker. reports and L.P.G. regulations are utilized as secondary sources.

A Study of Social and Economic Condition of Employees involving Domestic Gas distribution Workers: -Following workers are

cessary to organize, customer service and L.P.G. distribution to customer through distributor, appointed by corporation LPG Employees working in the distribution

ness mainly in two areas

The split is done. 1. Managerial staff 2.

uployees providing actual service In this business, the employees have a direct

परवणी अंक-८ मार्च २०२२

gas consumption. Keyword - LPG, Distribution, Domestic, Management

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Special Issue Theme: Challenges and future prospects in online submission of SSR (Special Issue No.108) ISSN 2349-638x Impact Factor 7.331

April 2022

# Role of Learning Resource Center in College: An Important Tool to Improve Quality of SSR

Dr. Dhananjay Wamanrao Deote

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Mrs. Pradnya Arvind Bhaga Librarian Bar. Sheshrao Wankhede Mahavidyalaya, Mohpa Distt.Gondin.441902

In this paper the authors have made an attempt to explore the role of learning resource centers inthe colleges and various ways to improve quality of SSR. Accreditation NAC has become an important necessity in higher education system to highlight qualitative part of the institution. An institution has to prepare the SSR (8elf Study Report) in three parts viz. institutional data, evaluative report and SIVOT analysis before the NAAC visit. The process of NAAC accreditation has to be done by an institution once in five years. The present paper may be proved to be a helpful and suggestive guideluring preparation of SSR by any institution.

Introduction:

National Assessment and Accreditation Council (NAAC) was established in 1994 as an autonomous institution of the University Grants Commission (UGC) in making quality assurance as an integral part for the functioning of Higher Education Institutions. NAAC primarily focuses on assessment of the quality of higher education institutions in the country for promotion of quality in teaching-learning and research in higher education institutions in the country for promotion of quality in teaching-learning and research in higher education institutions (HEIs) function in a dynamic environment because of the impact of teachnology on the educational delivery, the increasing interest of private participation in higher education and the impact of globalization where have necessitated marked changes in the Indian higher education and the impact of globalization where have necessitated marked changes in the Indian higher education and the impact of globalization where have necessitated marked changes in the Indian higher education and the impact of globalization where have necessitated marked changes in the Indian higher education and the impact of globalization where have necessitated marked changes in the Indian higher education and the impact of globalization where have necessitated marked changes in the Indian higher education and the impact of globalization where the education and the impact of globalization in the education and interest in the education in the education and accreditation is broadly used for understanding the "Quality Status" of an institution NAAC has identified the following seven criteria to serve as the basis of its assessment procedures since 2017.

The NAAC processes have been rendered in an online manner for the assesses institutions as well as for the assessorsThe criteria-based assessment forms the backbone of A&A process of NAAC. The seven criteria represent the core areas of functions and activities of an HELI. In the revised flamemewrh not only academic and process to the proces

Criterion 1: Curricular Aspects

Criterion2: Teaching-Learning and Evaluation Criterion3: Research, Innovations and Extension

Criterion4: Infrastructure and Learning Resources

Criterions: Educate and Learning Resources
Criterions: Gueden Support and Progression
Criterions: Gueden Support and Progression
Criterion: Institutional Values and Best Practices
Under each Criterion a few Key Indicators (KIs) are identified. These Key Indicators are further
delineated as Metrics which are actually meant to clicit responses from the HEIs. These seven criteria along with
their KIs are detailed below explicating the aspects they represent:

# delines for filling up Self-Study Report (SSR):

Self study report is most important report submitted by college for assessment and accreditation of college. Following are the main point for preparation of SSR which given by NAAC.

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Government has supported the consumption of domestic gas by subsidy, domestic gas fire incident has to be ensured by modifying domestic gas distribution layout compatible for LPG usage and

mounting mandatory safety instruments in domestic gas distribution system. In this study, several

domestic gas distribution layouts for LPG are depicted; moreover, some additional safety features ended to install at consumer's end for consuming LPG safely in household activity

Primary source: - Stratified Random sampling method is utilized while collecting the information about business of domestic gas distribution Secondary sources: -Annual business reports and L.P.G. regulations are utilized as secondary

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ISSN: 0972-7175 IMPACT OF WORKING BELOW POVERTY LINE SELF HELP GROUP IN MAHARASHTRA

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### Abstract:-

This Paper is an attempt to Impact of the working Below Poverty Line Self Help Groups in Maharashtra specifically The SHG system has proven to be very relevant and effective in offering women the possibility to break gradually away from exploitation and isolation. The rules and regulations of SHGs vary according to the preferences of the members and those facilitating their formation. A common characteristic of the groups is that they meet regularly (typically once per week or once per fortnight) to collect the savings from members, decide to which member to give a loan, discuss joint activities (such as training, running of a communal business, etc.), and to mitigate any conflicts that might arise Key word-SHG

### Introduction:

Self help group are gift of 21st century of our country, our country is occupied by villages mainly maximum population is located in rural areas, small colonies currently population of our country is more than 115 crore and out that 70% population is in rural areas and concern with country is called as agriculture country 35% of our population is literate and rural areas it is less 20-25%. It is fact that poverty follows illiteracy. Now our nation is emerging as the super power in world but we will come to know after study that only 5% of our population is holding around 84% wealth and remaining 83% people hold 13% wealth 2 to 3% people are poor and does not hold any wealth. And nobody can deny that such an imbalance and heart rending condition our country is going through.

### How self-help groups work

NABARD (1997) defines SHGs as "small, economically homogenous affinity groups of rural poor, voluntarily formed to save and mutually contribute to a common fund to be lent to its members as per the group members' decision". Most SHGs in India have 10 to 25 members, who can be either only mem or only women, or only youth, or a mix of these. As women's SHGs or Sangha have been promoted by a wide range of government and non-governmental agencies, they now make up 90% of all SHGs. Emergence of Microfinance

One of the successful models discussed around the Grameen Bank, has successfully served the rural poor one or me successful monest aucussed around the Grameen Bank, has successfully served the rural poor in Bangladesh. Group approach is not new in development process. Non-governmental organizations have been using this tool for working with the rural poor. For the last twenty years they are using this approach for economic empowerment of poor since 1992, with the initiative RBI, and launching of the pilot project by NABARD. The formal

banking sector started adopting this approach for extending credit to the unbankable sections of the poor.The objectives

- To evolve supplementary credit strategies for meeting the credit needs of the poor.
- To build mutual trust and confidence between the bankers and the rural people
- 3. To encourage banking activity both on the savings as well as credit side in a segment of the population that the formal credit institutions usually find difficult to cover.

STATUS OF SHG0 IN INDIA

Bangladesh has been acknowledged as a pioneer in the field of micro finance. Dr. Mahmud Yunus,

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### IMPACT OF SELP HELP GROUP IN BANK FINANCE

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Self-help groups mobilize savings from their members, and may then on-lend these funds to one another, usually at apparently high rates of interest which reflect the members understanding of the high returns they can earn on the small sums invested in their microenterprises, and the even higher cost of funds from money lenders. If they do not wish to use the money, they may deposit it in a bank. If the members' need for funds exceeds the group's accumulated savings, they may borrow from a bank or other organization, such as a micro-finance non-government organization, to augment their own fund. Key word- SHG

### Introduction:-

Vasudeva Rao (2003) pointed act that one-third of the members had not even taken loans on their own savings, while another 1/3rd had taken only once during the last one year. Only 10 per cent of them were reported to have taken loans thrice in the same reference period. Majority of them had taken loans for their own occupational development, whereas only a few of them had taken for health, education and marriage purposes. The amounts taken were also varying with the purpose.

Raghavendra (2003) revealed that the total number of SHGs which were credit linked in the country reached a phenomenal figure of 4.61 lakh by March 2002. Almost 90 per cent of them were linked to banks were exclusive women groups and periodic studies have revealed that repayment of loans by SHGs to banks has been consistently over 95 per cent. Sharma (2003) reported that financing had been successful and recovery has been over 98 per cent. The Cauvery Grameen Bank covers 1,653 village in three districts of Kamataka – Mysore, Chamarajnagar and Hassan. Baneriee (2000) in a study conducted in Tamil Nadu stated that the repayment performance of loans issued from the common fund was cent per cent. In case of delay in payment of dues by any member, the causes for such delay were debated in the meeting and necessary postponement for payment of installment, if warranted was approved by all the group members and the interest rate charged varied widely among the groups. About 50 per cent of the groups had charged 2-3 per cent per month. In 20 per cent of the groups, the interest fixed was 1.5 per cent per month, which indicated the level of maturity and skills of the group members in fixing their own rates of interest without causing much burden to the members. Higher rate of interest fixed to business and other IGAs. However, in the remaining 28 per cent of groups, a uniform interest rate of 3.00 per cent per month was charged. The average saving per year was where collateral and paper requirements were kept at a minimum, usually the payments were collected at places where women congregated and worked. These credits were combined with supporting services, a viable market and extension services (NozleenHeyzer and Ritasen, 1994).

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# DEVELOPMENT OF WEB-BASED SEVEN SEGMENT EXPERIMENTS

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Abstract - The scope of this paper includes the development and implementation of web-based seven segment experiments. The study of ses segments experiment is important for learner of Electronics, Computer Science and Engineering stream. This experiment can be evaluated by us the concept of virtual intelligents Sofials (VIS). The virtual experiments will help students be perform it at anytime and anywhere. The virtual rescription is a study of the concept of virtual intelligents Sofials (VIS). The virtual experiments will help students be perform it at anytime and anywhere. The virtual rescription is a study of the concept of virtual intelligents and its related supplies. There is a facility in change the input values using virtual interment and observed the delicer outputs on the virtual Instrument. In this paper we toke the characteristics of seven segments using virtual environment.

Keywords SoftLab. Seven segments, Virtual Lab, Virtual Instrument, Softlab etc

1. Introduction

The basic concept of web-based experiments is to provide a virtual platform for learners to perform the experiment on their own smart device i.e. mobile or laptop. The working procedure of web-based experiment is similar to a real laboratory and its environment is the virtual experiments are basically design of those students who are not performing their experiments on real laboratory due to lack of resources. During the experiment, the learner can save and cdn the dark for their own analysis. Apart from these the basic flows is that the maximum number of kenneroe performs the virtual experiments on virtual experiments or virtual experiments on virtual experiments on virtual experiments on virtual experiments or virtual experiments. The VIS (Virtual landle) experiments or virtual experiments or virtual experiments or virtual experiments or virtual experiments. The VIS (Virtual landle) experiments or virtual experiments or virtual experiments or virtual experiments. The VIS (Virtual landle) experiments or virtual experiments or virtual experiments or virtual experiments. The VIS (Virtual landle) experiments or virtual experiments or virtual experiments or virtual experiments. The VIS (Virtual landle) experiments or virtual experiments or virtual experiments or virtual experiments. The virtual experiments or virtual experiments or virtual experiments or virtual experiments or virtual experiments. The virtual experiment is virtual ex

2. Experiments on Seven Segments
A seven-segment decoder is a logic circuit generally used for the visual display of digital information. The seven segment outputs of decoder will drive the seven segments on a corresponding display. The BCD system represents the decimal numbers from 0 to 9 and binary format suitable for most digital devices. A four-bit digital code is required with the decimal characters 0 to 9 represents of the proposition of binary numbers 0000 to 1001. The combinations of 1010 to 1111 are not used. A BCD to seven-segment decoder and it allow the display of a binary coded decimal on a seven-segment display. The input to the decoder is a number system from 0 to 9 in Bud and the output provides the seven pin inputs required to drive the seven-segment display. Although our experiment design will include and the output provides the seven pin inputs required to drive the seven-segment display. Although our experiment design will include the provides the seven pin inputs required to drive the seven-segment display. Although our experiment design will include the provides the seven pin inputs required to drive the seven-segment display. Although our experiment design will leave.

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