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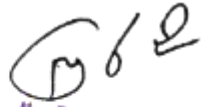
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## Azetidin-2-Ones Based on Pyrimidine-Sulfonamide Clubbed Derivative

The presence of  $>C=N$  group is of great importance by considering the fact that it can be transformed into various heterocyclic ring compounds. The availability of the presence and significant biological properties of the members known so far prompted the authors to extend moieties like 2-azetidinones. Various Schiff bases Schiff based of 4-amino-N-(4-(2,4-dichlorophenyl)-6-(6-methylnaphthalen-2-yl)pyrimidin-2-yl)benzenesulfonamide (6a-h) mentioned in chapter-2 on heterocyclization reaction with chloroacetyl chloride yield the biologically active 2-azetidinones ( $\beta$ -lactams).

Dr. (Mrs.) Kokila A. Parmar is an Associate Professor of the Department of Chemistry of the H.N.G. University, Patan, Gujarat, INDIA. She obtained Ph.D degrees from H.N.G. University, Patan. Dr. (Mrs.) Kokila A. Parmar has published more than 60 research papers and technical articles in various National and International reputed journals.



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Azetidin-2-Ones Based on  
Pyrimidine-Sulfonamide  
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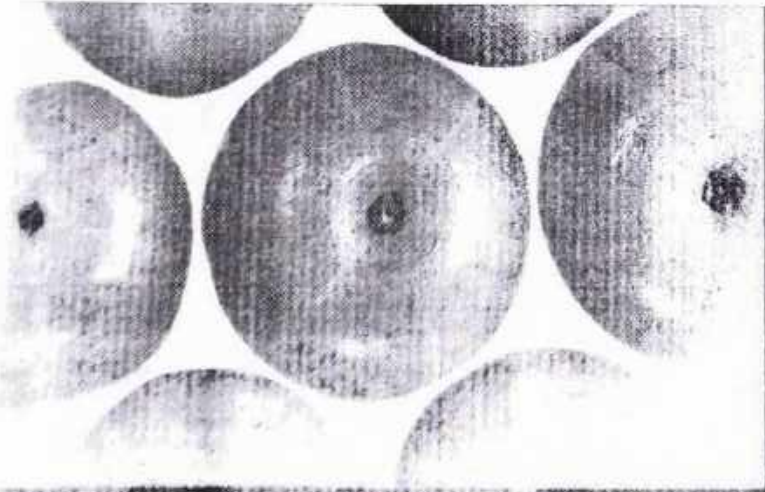
# Antimicrobial Activity and Phytochemical study of Phyllanthus Emblica Fruit and Leaves Crude Extract

Shashikant Sutar  
Shankar Raj  
Kokila Parmar Ed

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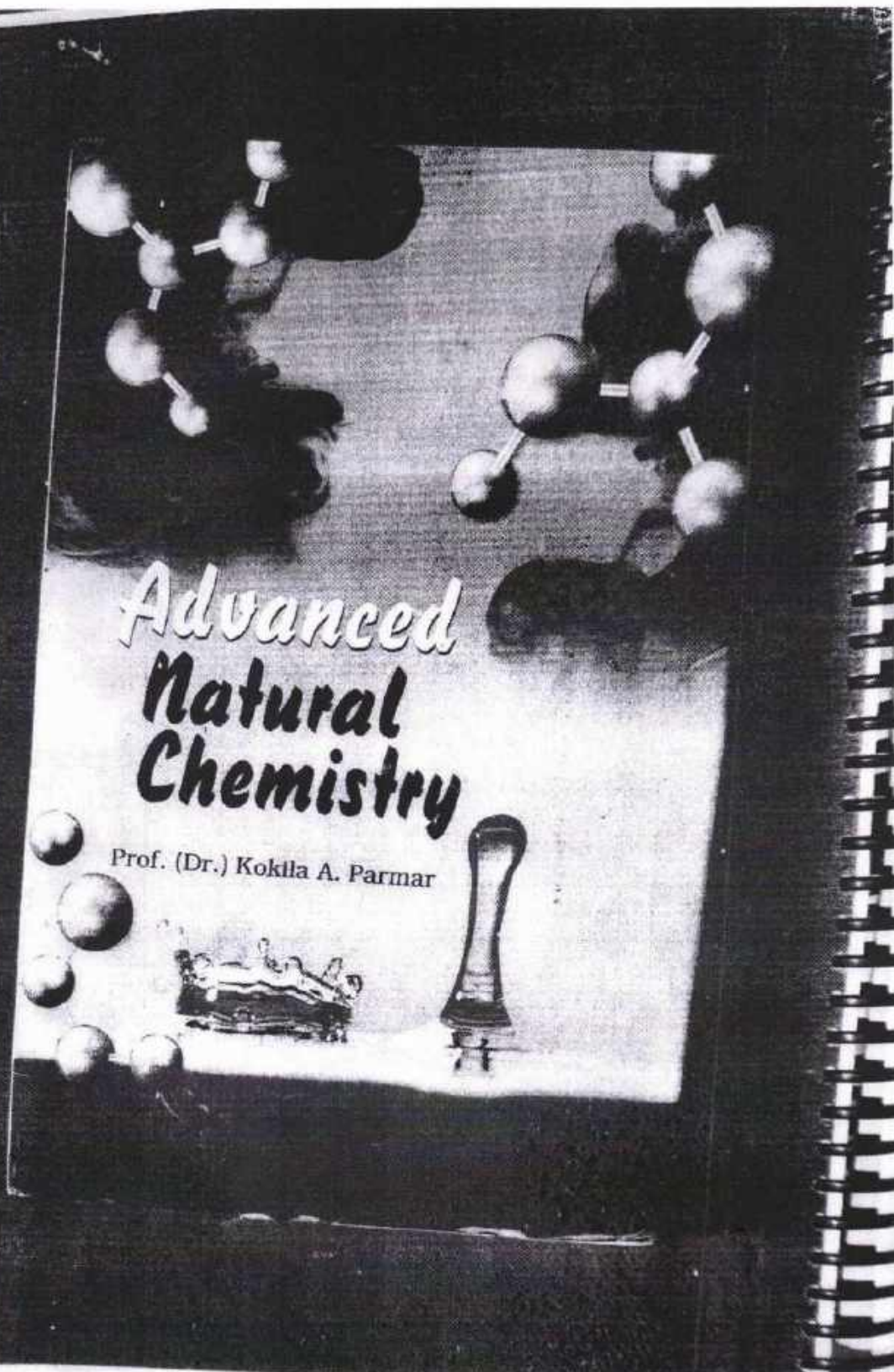
Dr. Shashikant D. Sutar is working as Assistant professor in Shri M. M. Sarda College, Talasari, H. N. G. U. Raipur. Shantkumar Raj is student of H. N. G. U. Institute of Postgraduate Studies and Research, Kadi Campus at Kadi, Sarva Vishwavidyalaya University, Koliya, A. Parmar works as reader in H. N. G. U. Patna



PHYLLANTHUS EMBLICA FRUIT AND LEAVES CRUDE EXTRACT AND BACTERIAL STRAINS AS WELL AS A FUNGAL STAIN  
Phyllanthus Emblica plant was investigated for evaluating the antimicrobial and antifungal properties against gram-positive and gram-negative bacterial strains as well as a fungal strain.  
Different extracts of leaves and fruit viz. water, methanol, ethylacetate and were prepared and content was optimized for the quantity with varying time. The extracts were evaluated for antibacterial and antifungal properties against gram-positive and gram-negative bacterial strains as well as a fungal strain.



(3.1)



*Advanced*  
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Chemistry**

Prof. (Dr.) Kokila A. Parmar

(3.2)

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## Advanced Natural Chemistry

### About the Book

This book provides an easy-to-read overview of natural products. It includes twelve chapters covering most of the aspects of natural products chemistry. Each chapter covers general introduction, nomenclature, occurrence, isolation, detection, structure elucidation both by degradation and spectroscopic techniques, biosynthesis, synthesis, biological activity and commercial applications, if any, of the compounds mentioned in each topic. Therefore it will be useful for students, other researchers and industry. The introduction to each chapter is brief and attempts only to supply general knowledge in the particular field.

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### About the Author



Prof. (Dr.) Kokila A. Parmar (b.1967) got M.Sc. (Organic Chemistry) in 1991 and Ph.D. (Inorganic Photochemistry) in 2001. She also completed her semester IV for L.L.B. degree. She is working as professor at Department of Chemistry, Hem. North Gujarat University, Patan, Gujarat. She is also a Co-ordinator of M.Phil. (Chemistry) course and Remedial coaching classes for SC/ST/OBC & Minorities. Beside teaching she has been worked as chair person, Dr. Bhabasaheb Ambedkar Chair in the same university. She is a Ph.D. guide since January 2003 and 28 Ph.D. and 10 M.Phil. students awarded their degree under her guidance. Presently 07 students are working and recently 06 students have submitted their thesis under her guidance. She has participated in many National and International seminar, conference and also attended workshops. She has published many articles and more than 130 research papers in various national and international journals.

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- 1) Synthesis of Schiff Bases bearing benzene sulfonamide.
- 2) Azetidion-2-Ones Based on Pyramiding-Sulfonamide Clubbed Derivative.
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**Judicial Initiatives**  
Towards  
**Women Empowerment**



Prof. (Dr.) Kokila A. Parmar

(4.2)

701

## Legislative and Judicial Initiatives Towards Women Empowerment

### About the Book

Women face many social challenges in the current day and age. Whether it be securing an income for her family or raising children amidst the harsh economic crisis, a woman plays many roles. Women are often over-worked and women's rights are still very much an issue in many parts of the world. In India, women are forced to use fields and open spaces for defecation and have had to withstand chronic health problems due to the lack of toilet facilities.

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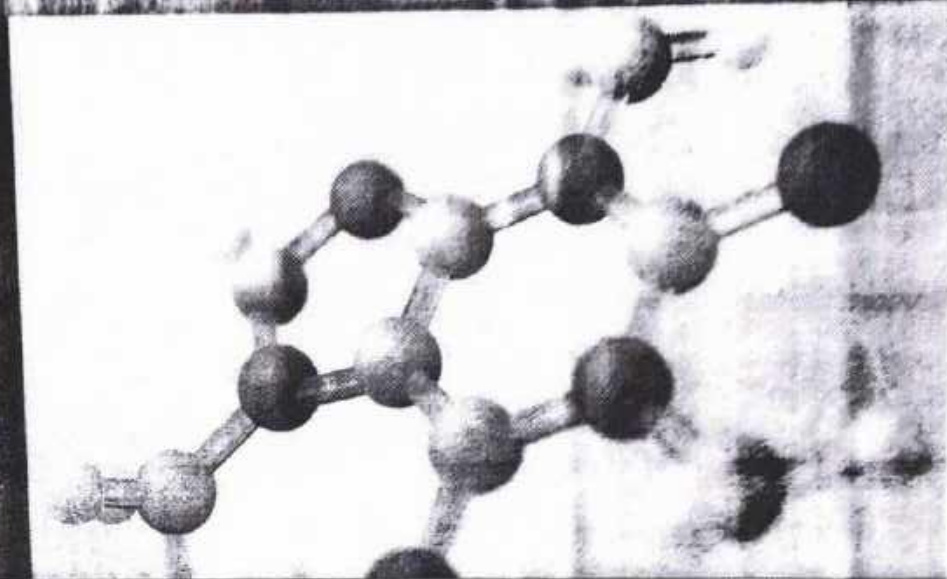


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Schiff bases are the compounds containing azomethine group ( $\text{HC}=\text{N}$ ) formed by condensation of a primary amine with an active carbonyl compound. Sulfonamide derivatives have been subjected through studies where a wide diversity of those derivatives have been prepared and used in various biological and pharmacological fields. Schiff bases are among the most studied sulfonamide derivatives which have been used for several biological applications. These types of derivatives are very important because of their varied structure and biological activities. In continuation of our work on sulfonamide derivatives, the present work is oriented towards synthesizing new Schiff bases derived from 4-(2,4-dichlorophenyl)-6-(6-methylnaphthalen-2-yl)pyrimidin-2-amine and sulfonamide derivatives were synthesized by condensing chalcon with Guanidine Hydrochloride.



Kokila Parmar  
Sarju Prajapati

Dr. (Mrs.) Kokila A. Parmar is an Associate Professor of the Department of Chemistry of the H.N.G. University, Patan, Gujarat, India. She received her Ph.D. degrees in Chemistry from H.N.G. University, Patan. Dr. (Mrs.) Kokila A. Parmar is the author of more than 60 research articles. Her areas of research interest is Organic synthesis.

## Synthesis of Schiff Bases bearing benzenesulfonamide



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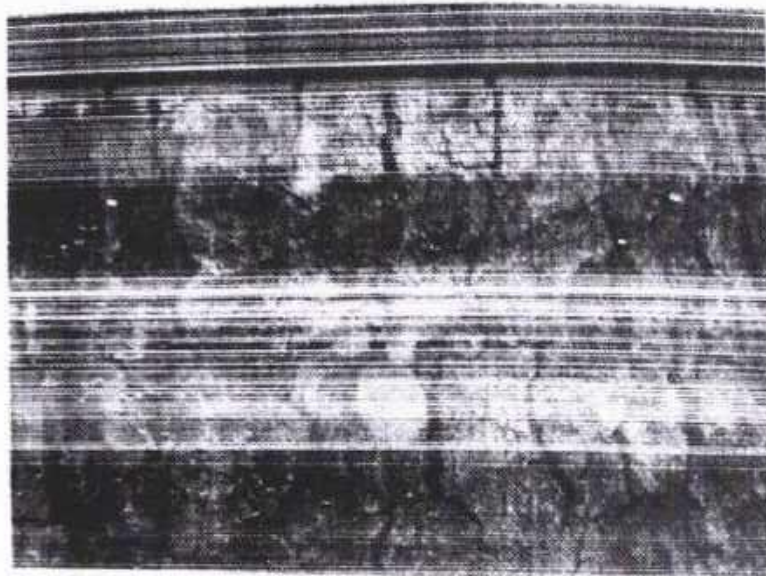
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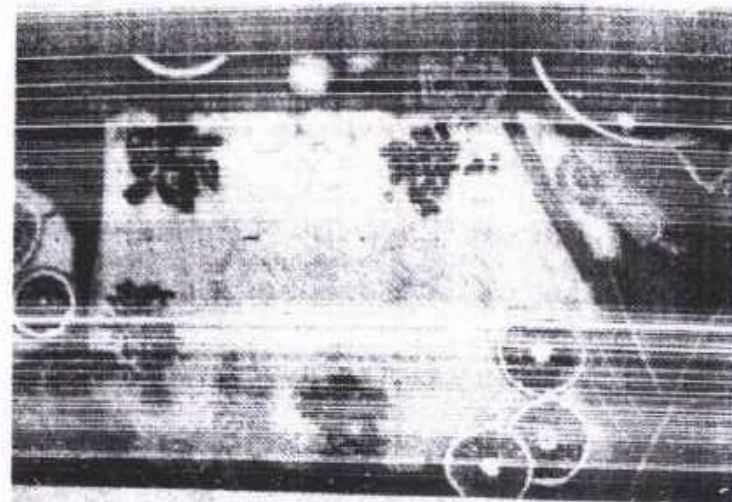
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# Silver nanoparticles from plant extracts

Biosynthesis and characterization

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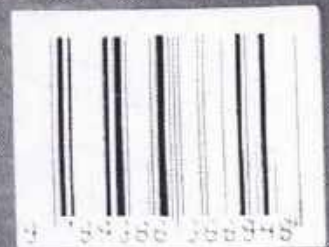
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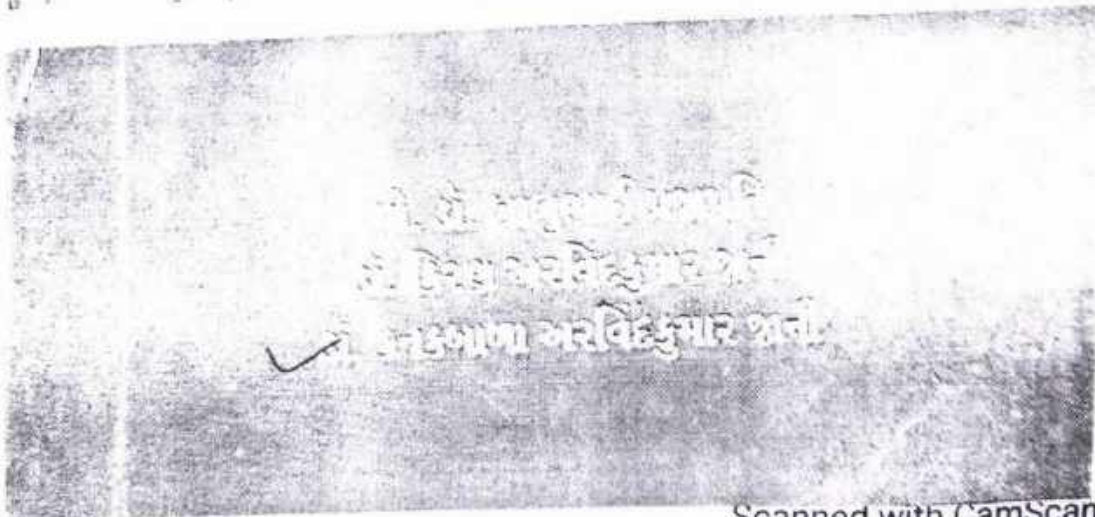


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by

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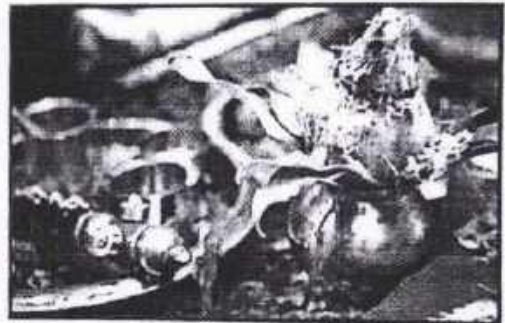
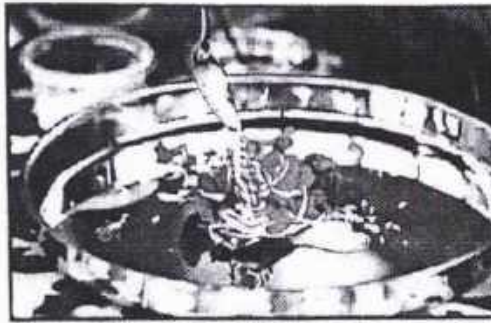
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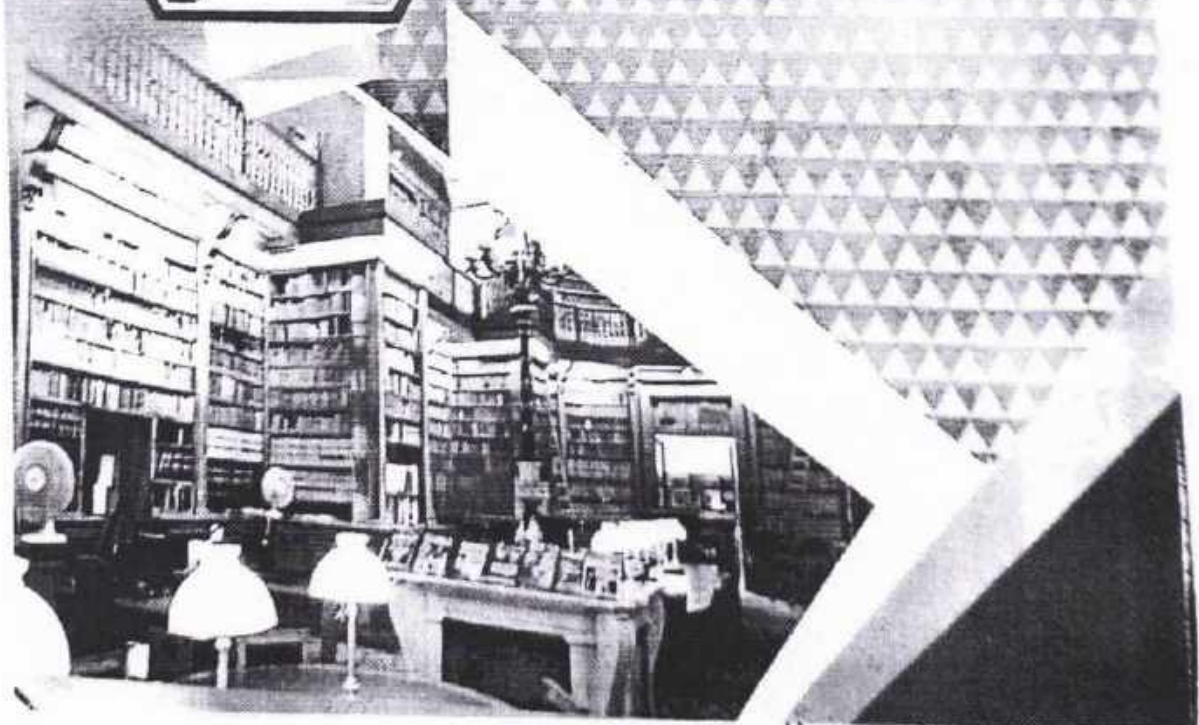
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**Objective Question of Library and Information Science**

— Dr. Kanakbala A. Jani, Dr. Kiran A. Jani

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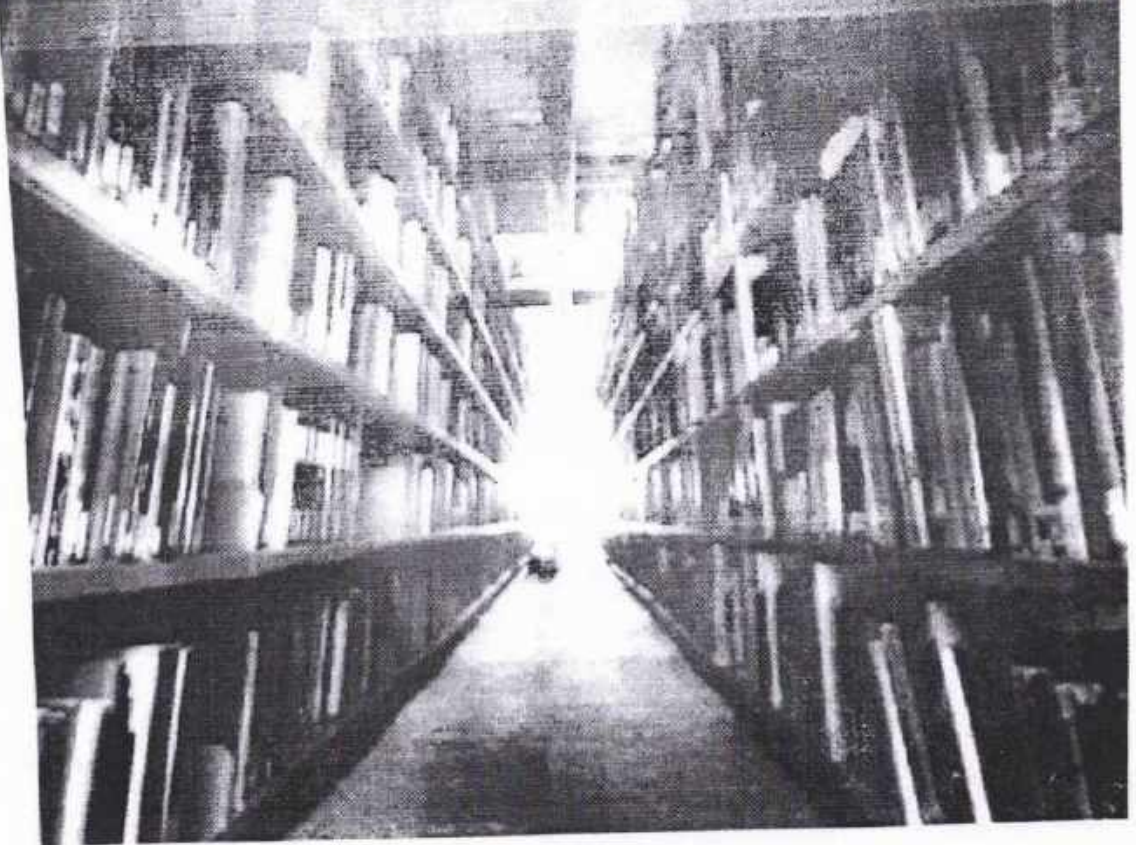
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સાર્વજનિક ગ્રંથાલયની વિકાસરેખા  
અને  
ભારતના વિવિધ રાજ્યોના ગ્રંથાલય ધારાઓ

ડૉ. કનકબાળા અરવિંદકુમાર જાની





ડૉ. કનકમાળા જાની

ડૉ. કનકમાળા જાની હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટીમાં ડી. યુનિવર્સિટી ઓરિએન્ટેશન અને એ-ઓડિનેટર, પ્રબંધન અને માહિતી વિજ્ઞાન વિભાગમાં કાર્યરત છે. તેઓ હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટીમાં પ્રબંધન અને માહિતી વિજ્ઞાનમાં પીએચ.ડી.ના માર્ગદર્શક તરીકે માન્યતા પરાવે છે. તેમના માર્ગદર્શન હેઠળ ત્રણ વિદ્યાર્થીઓએ પીએચ.ડી.ની ડિગ્રી પ્રાપ્ત કરેલ છે. જ્યારે ત્રણ વિદ્યાર્થીઓ સંશોધન કરી રહ્યા છે. તેઓ રાય યુનિવર્સિટીમાં પીએચ.ડી.ના RDC Expert તરીકે પણ સેવાઓ આપી રહ્યા છે. તેઓશ્રીએ વર્ષ ૨૦૦૭ થી ૨૦૧૫ યુનિવર્સિટી સંચાલિત કન્યા છાત્રાલયના રેક્ટરનો ચાર્જ હુલાસાપૂર્વક સંભાળ્યો હતો. તેઓશ્રી હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટીના વૃત્તપત્ર "ઉદ્દીપ્ય"ના સંપાદક અને સંશોધન જર્નલ "આનંદ"ના સહસંપાદકની કામગીરી સંભાળી રહ્યા છે.

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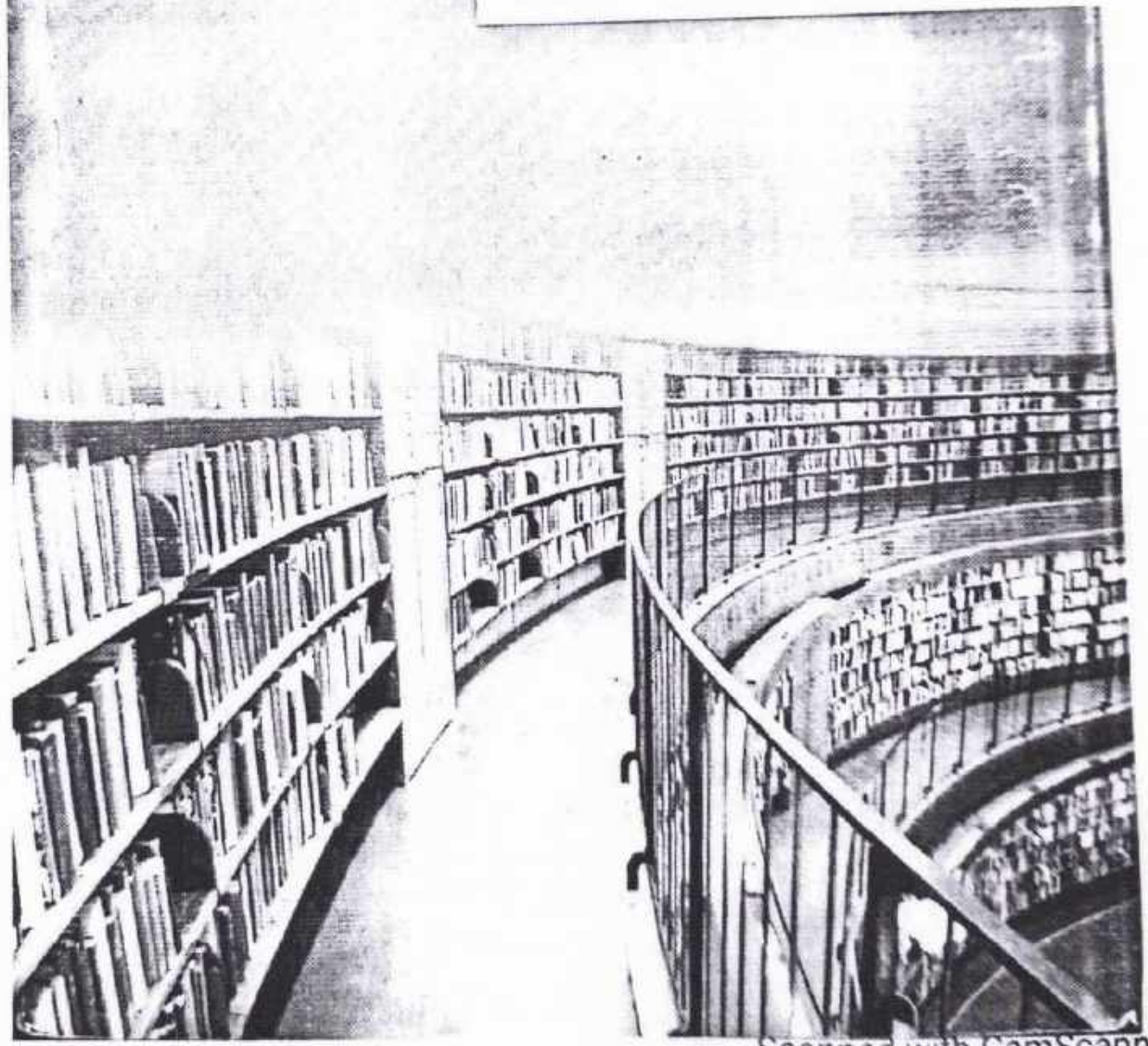
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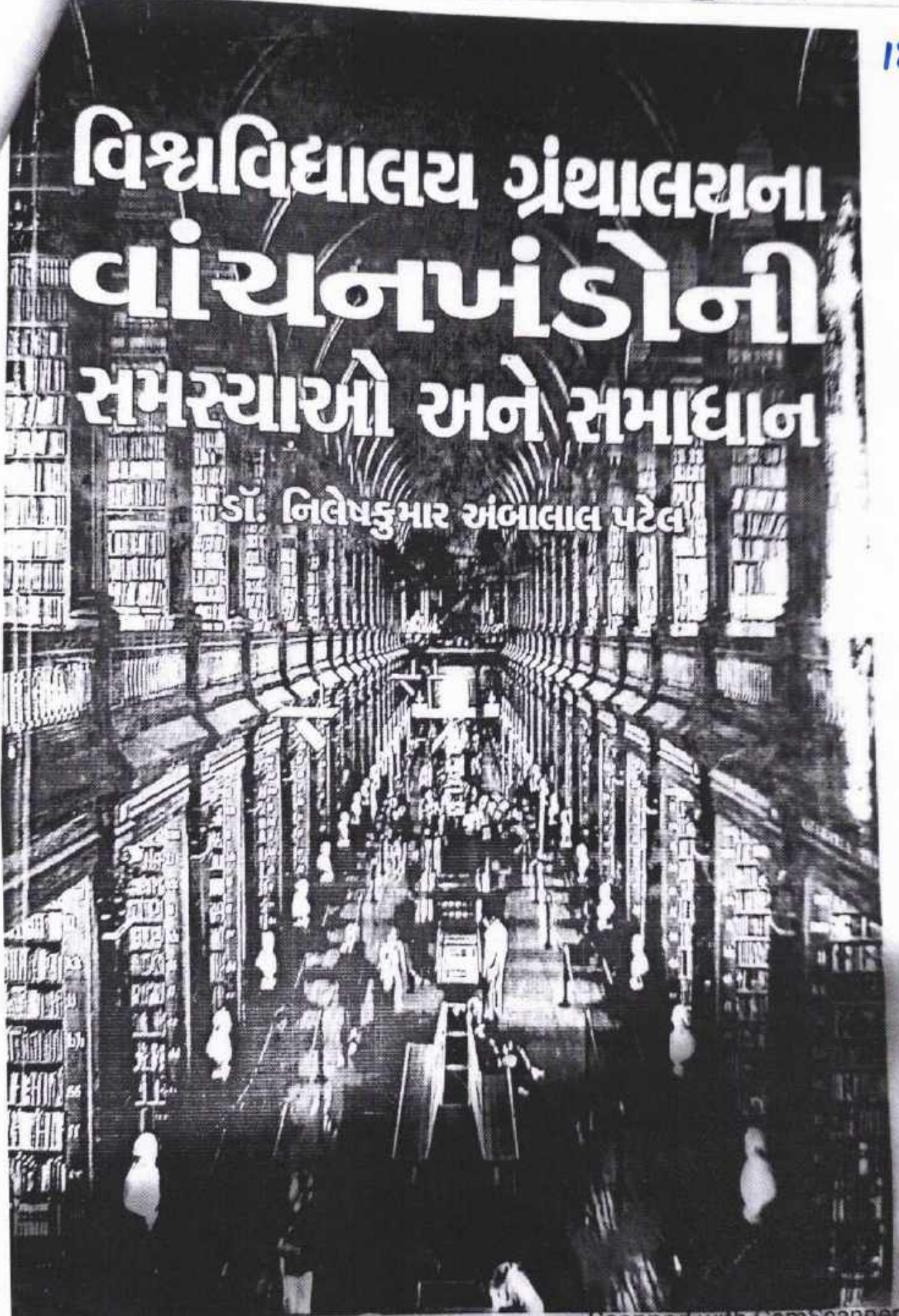
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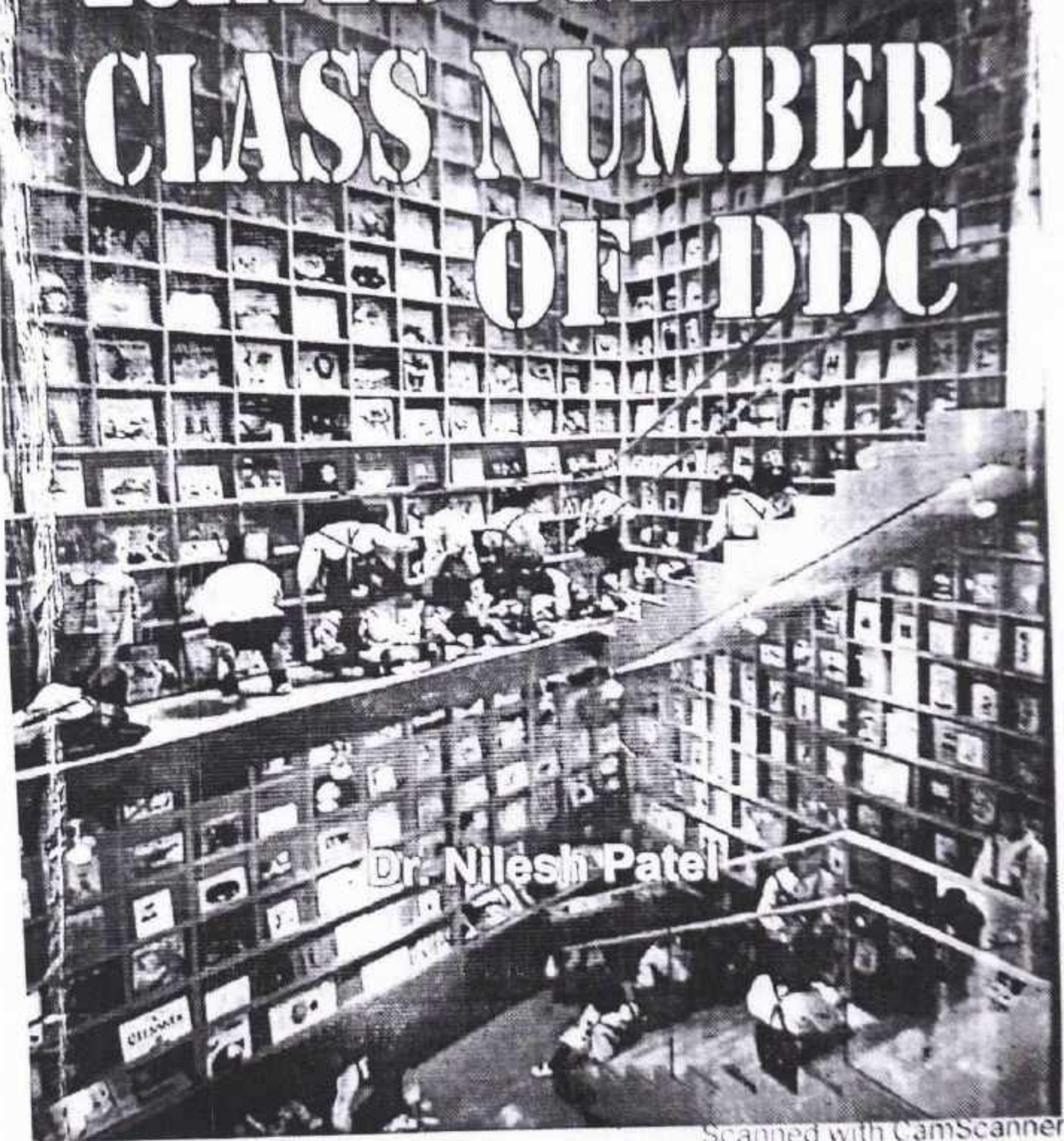
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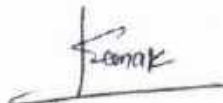
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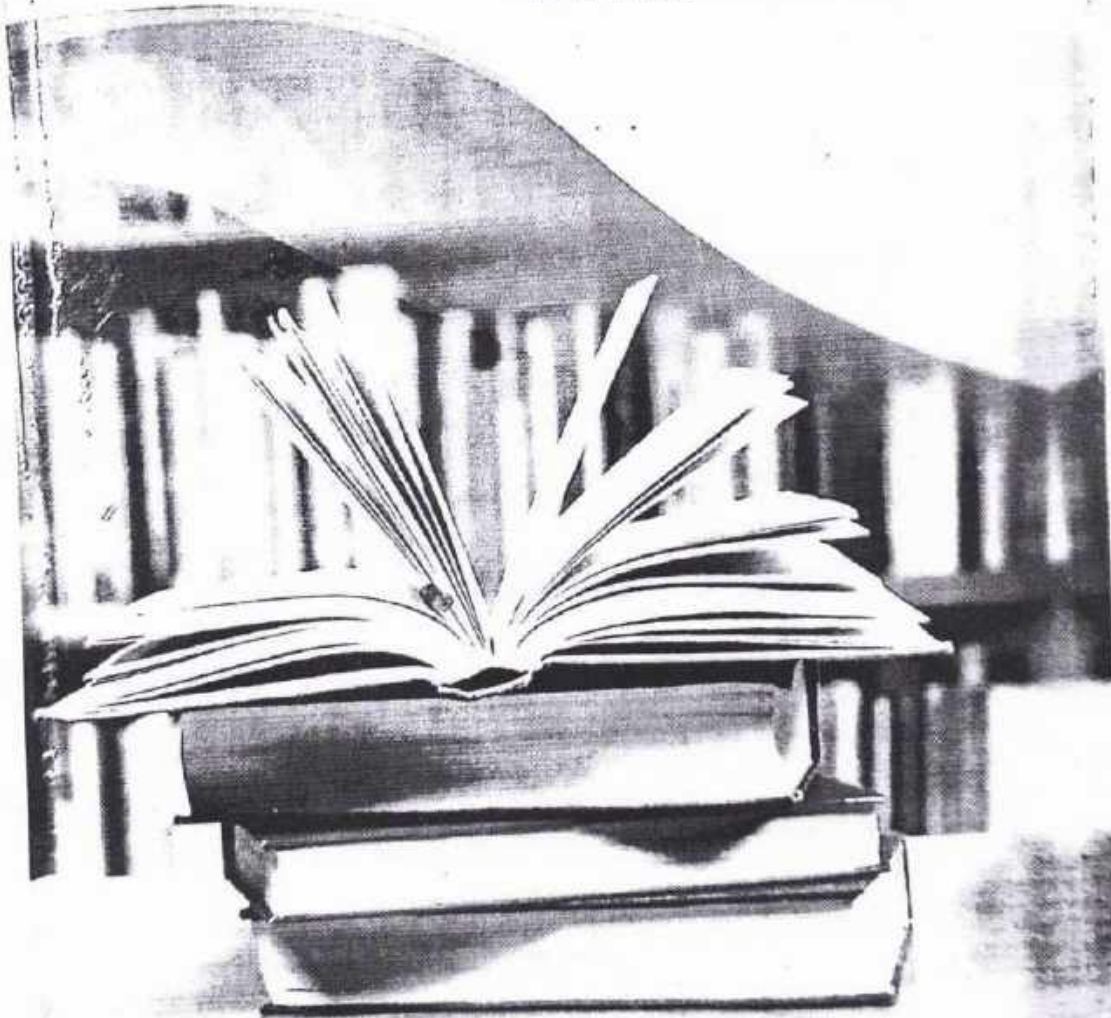
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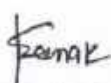
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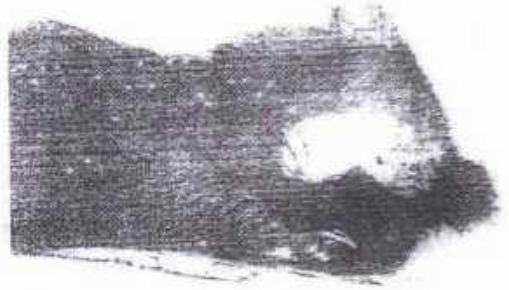
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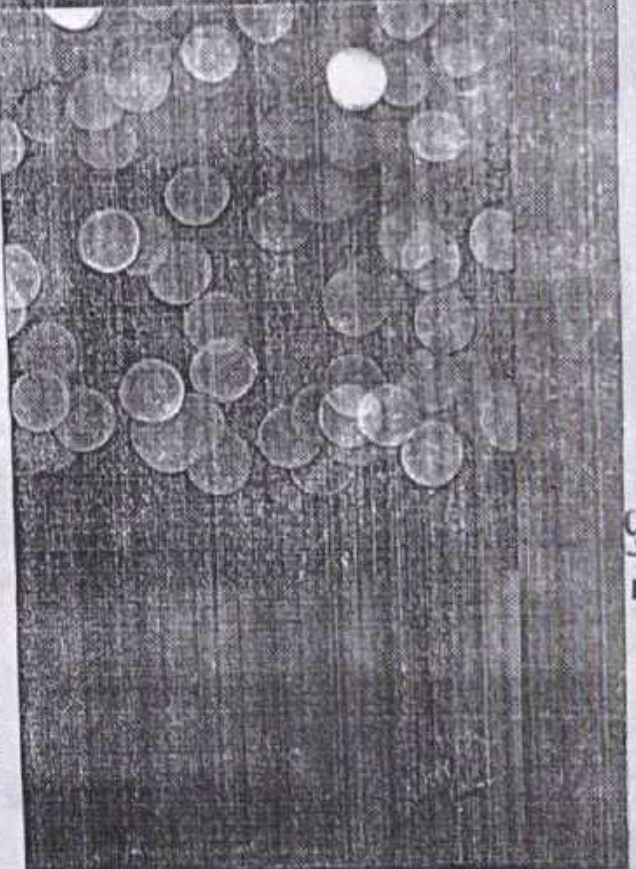


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Research of dyes in waste water is a big environmental challenge for pollution because of robust nature of these dyes as far as degradation in conventional solar and photo-chemical method are. Sonolytic used for degradation of many organic compounds like dyes. So pilot projects are always needed to develop strategies to deal with dye contents present in waste water. Janus, Green and Eosin Yellow are bad dye studied here.



Investigation of Acid dyes



Kulsuam shalkh is working teaching assistant and has 02 paper published to her credit. Professor Sangita Sharma is professor at Hemchandracharya North Gujarat University, Gujarat where she has taught for 24 years in department of chemistry. She has published 142 publication in Journal of International repute.



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## Solution Chemistry of $\beta$ -Pinene

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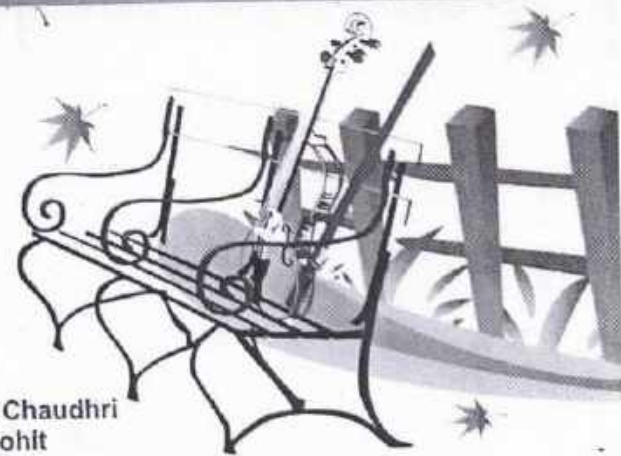
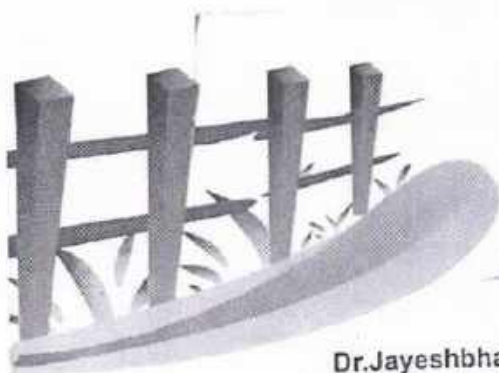
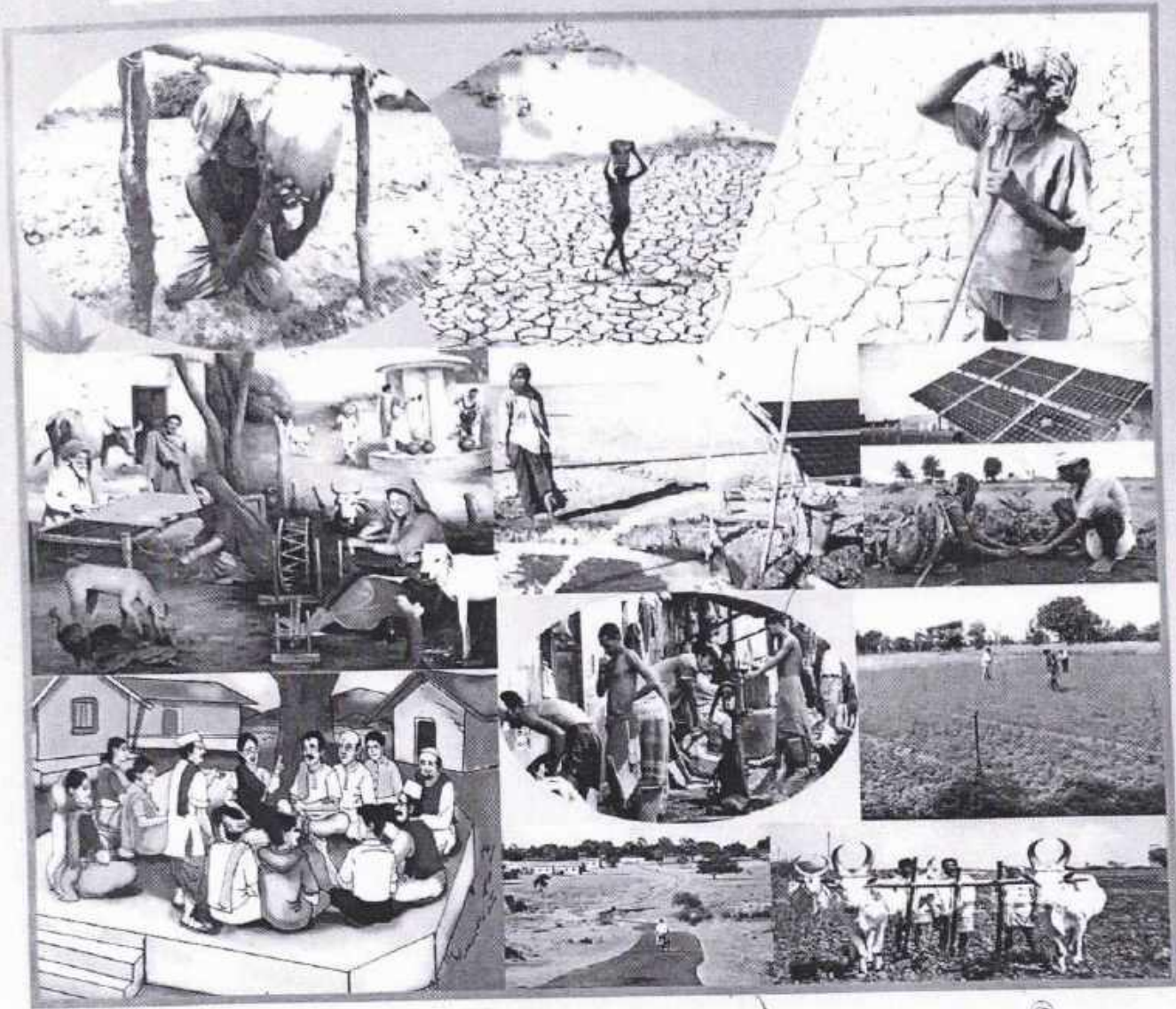
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## **A Study on Rural Development in India: Indicators, Problems and Strategies**

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### **1. Introduction:**

For the economic development of any country, rural development is considered as the backbone and it assists the economy to grow and sustain. It is the axis of the economy including the labour ethics impacting the potential of business in big way. It is a popular belief that economic development takes place due to rapid industrialization. But industrial development itself cannot take place without agriculture. More specifically, agriculture contributes to economic development by product contribution and market contribution.

For economic development, agricultural activities play a key role in rural areas, but economic activities may be related to primary sector (besides agriculture it includes fisheries, forestry, mining and animal husbandry), processing of food grains and production of raw materials, household manufacturing industries, small scale agro-based rural industries and business. As agriculture depends on monsoon and weather conditions, such industry is assumed to be very volatile and fluctuating. Though people have become modernized in urban sector depending more on non-vegetarian food for their survival needs, the growth of agricultural sector is imperative to feed the nation and country. In rural sector, people are facing the issues like poverty, exploitation, etc. which is

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## Determination of Factors Affecting Behaviour of Individual Investors: A Study of Bank Employees

Parth M. Modi

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**Abstract**— In this study, it was main purpose to investigate the factors which influence behaviour of individual investors of bank employees. The data for this study was gathered to determine the investment behaviours of individual bank employees in North Gujarat using a well-structured questionnaire. The sample of this study consists of 175 respondents. The data was collected from five districts of North Gujarat viz., Mehsana, Patan, Banaskantha, Sabarkantha and Aravalli. Multiple regression was performed for testing the proposed research model. The results of this study supported five out of five hypothesized relationships and confirmed good empirical support for proposed research model. The findings of this research study are limited: 1) This study is focus on only North Gujarat; 2) The study is restricted to bank employees of North Gujarat.

**Keywords** — Investment; Investment Behaviour; Individual Investors

### 1. Introduction

Economic growth is one of the most important factors affecting the quality of life that people live in a country. There are three variables; Income, Savings and Investment which measure growth of an economy. Individual savings and investment are important both for personal financial well-being and for economic growth. It enhances the national product or per capita income after investment in productive areas, and raises the investor's living standards (Anju & Anuradha, 2015). Investors are savers but all savers cannot be good investors, as investment is a science and an art. The growth of urbanization and literacy has activated the cult of investment (Avadhani, 2005). Investment is the surrender of specific present value for the uncertain future. It involves arriving at numerous investment and divestment decisions such as type, mix, amount, timing, grade etc. An investment decision is a trade off between risk and return (Bhalla, 2004).

Investment behaviour involves understanding the different investment avenues, collecting all the information related to these investment avenues, selecting the appropriate instruments, analyzing the instruments' performance and making their investment in these avenues. Investment behaviour

also depends on individuals' attitudes towards risk and return. Investment behaviour related to individual investor activities related to searching, evaluating, acquiring, reviewing investment products and disposing of such investment products where necessary.

According to the Theory of Planned Behaviour, perceived behavioural control, along with behavioural intention, can be used directly to predict behavioural achievement. Attitudes towards behaviour, subjective norms relating to behaviour, and perceived control against the behaviour are usually found to predict behavioural intentions with a high degree of accuracy (Ajzen, 1991).

This study is structured in six sections. First section starts with an introduction of this study. Second section presents a review of literature containing the past research carried by researchers. In third section, research methodology is outlined, in which sampling, data collection and survey measures are explicated and research model with hypotheses development. Fourth section includes data analysis covering profile of the respondents, scale reliability and multiple regression analysis, followed by the discussion of research findings in consecutive fifth section. The sixth section concludes with limitations and scope for future research.



Indian Council of Social Science Research

# Healthcare, IT & Consumerism: A Solution for Affordable and Accessible Healthcare



Edited by

Dr. Ashwin Modi (Post Doctoral, USA)

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**Healthcare, IT & Consumerism: A Solution for Affordable and Accessible Healthcare**

*Edited By*

**Dr. Ashwin Modi (Post Doctoral, USA)**  
Co-ordinator (M.Com Programme) &  
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# 1 Patient Satisfaction in Emergency Department : A Systematic Review

Dr. Ashwin G. Modi\*  
Dr. Nimesh P. Bhojak\*\*  
Dr. Mahesh Patel\*\*\*

## ABSTRACT

Patient satisfaction is employed as an important marker for quality of medical care in a competitive medical market place. Emergency department (ED) is the point of entry for many patients, relatives and friends. Satisfaction in ED has been reported as a key determinant of hospital's reputation and has shown significant influence on patient loyalty, retentions and adherence. Satisfaction is an Individual judgment resulting from the use and evaluation of a product or services. It is the overall evaluation of healthcare services received by a patient. This study shows that the previous study, conducted a research in emergency department of hospitals and suggested three latent constructs such as physician service(SP), waiting time(SWT) and nursing care(SN). Interestingly, all constructs are positively associated with overall satisfaction. In another study, wait time, information delivery, safety, and infrastructure have been explored for patient satisfaction in ED. However, the developed models and theories are country-specific and may not fit to developing countries. Therefore, more studies with robust statistical approach are required to explore the latent construct and measuring level of satisfaction from healthcare organizations.

*Keywords :* Patient Satisfaction, Emergency department, service quality etc.

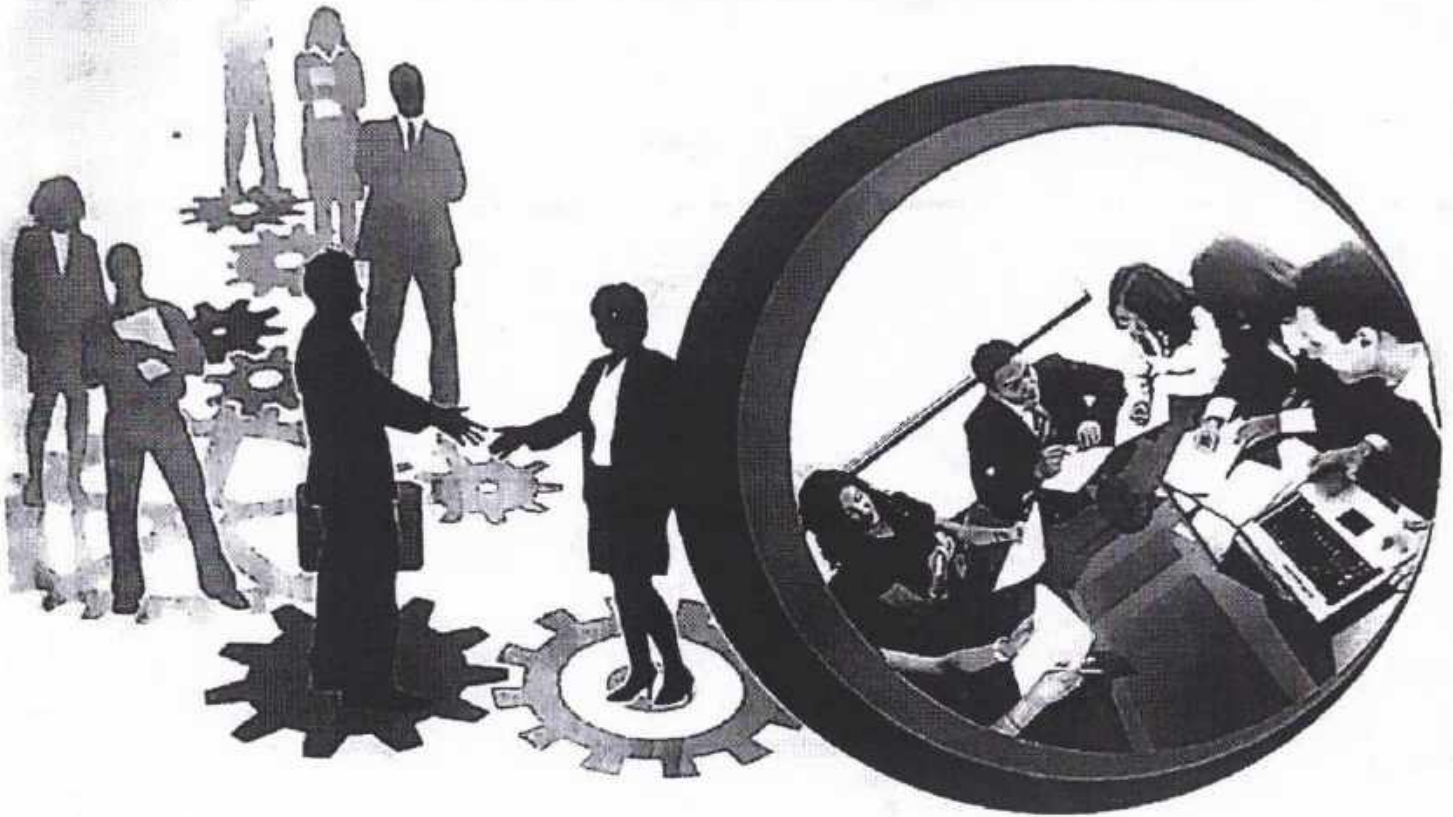
### 1. Introduction

Patient satisfaction is employed as an important marker for quality of medical care in a competitive medical market place. Patient judgment and feedback towards satisfaction is used as an outcome measure in evaluating health and quality medical services to improve the competitive position and to outline the strategy for further growth<sup>1</sup>. The satisfaction information provided by patients can improve the services offered to the patients<sup>2</sup>. Interestingly many countries<sup>3</sup> have included patient satisfaction measures in their accreditation standards for quality improvement. Emergency department (ED) is the point of entry for many patients, relatives and friends<sup>4</sup> Satisfaction in ED has been reported as a key determinant of hospital's reputation<sup>5</sup> and has shown significant influence on patient loyalty, retentions and adherence<sup>6</sup> Moreover, satisfied patient from ED has shown significant impact on public view<sup>7</sup> and recommendation to potential patients<sup>11,12,13,14</sup>. In many healthcare organizations, Emergency services were identified as the potential driver to financial growth in long term<sup>15,16</sup>. In addition to these marketing elements, a satisfied patient will comply to discharge instructions, and can favor physicians' treatment by ensuring positive health outcome<sup>13,17,8</sup>. In fact satisfied patient will build healthy relationship with physician and will avoid any litigation towards healthcare insitutions<sup>19</sup>. In this context,

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# ISSUES AND CHALLENGES IN BUSINESS MANAGEMENT



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# Cloud Computing Model in Health Care Industry

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## Abstract

Technology plays an important role in today's industry. Health care industry increasingly adopting cloud based services. Cloud computing applications are changing day by day. Cloud based technology is current technological innovation in health care. Healthcare systems mostly work on paper based records. Technology use is limited in healthcare organizations. Cloud computing is vastly used in all type of industries including private and government sector. Various E-Governance models are working successfully in these days. Cloud computing provides an infrastructure that allows hospitals, medical practices, insurance companies to improve computer based resources with lower cost. Cloud environments will lower the barriers for innovation and transformation of systems and applications. Cloud computing caters to the key technology requirements of the healthcare industry. In this paper we are going to discuss cloud computing architecture, features and uses in health care organizations.

**Keywords:** Cloud Computing, SaaS, PaaS, IaaS.

## Introduction

Technology plays an important role in today's industry. Health care industry increasingly adopting cloud based services. Cloud computing applications are changing day by day. Cloud based technology is current technological innovation in health care. Healthcare systems mostly work on paper based records. Technology use is limited in healthcare organizations. [1] Cloud computing is vastly used in all type of industries including private and government sector. Various E-Governance models are working successfully in these days. Cloud computing provides an infrastructure that allows hospitals, medical practices, insurance companies to improve computer based resources with lower cost. Following are some of the benefits of cloud computing

- Enables on-demand access to computing and large storage facilities which are not provided in traditional IT environments.
- Supports big data sets for electronic health records (EHR), radiology images and genomic data offloading, a burdensome task, from hospital IT departments.
- Facilitates the sharing of EHRs among authorized physicians and hospitals in various geographic areas, providing more timely access to life-saving information and reducing the need for duplicate testing.
- Improves the ability to analyze and track information (with the proper information governance) so that data on treatments, costs, performance, and effectiveness studies can be analyzed and acted upon.

## Types of Cloud

**Deployment models:** [2] This refers to the location and management of the cloud's infrastructure. The U.S. National Institute of Standards and Technology (NIST) definition for the four deployment models is as follows:

- **Public cloud:** The public cloud infrastructure is available for public use alternatively for a large industry group and is owned by an organization selling cloud services.
- **Private cloud:** The private cloud infrastructure is operated for the exclusive use of an organization. The cloud may be managed by that organization or a third party. Private clouds may be either on- or off-premises.
- **Hybrid cloud:** A hybrid cloud combines multiple clouds (private, community of public) where those clouds retain their unique identities, but are bound together as a unit. A hybrid cloud may offer standardized or proprietary access to data and applications, as well as application portability.
- **Community cloud:** A community cloud is one where the cloud has been organized to serve a common function or purpose.
- **Service models:** This consists of the particular types of services that you can access on a cloud computing platform

**Service models:** [3] In the deployment model, different cloud types are an expression of the manner in which infrastructure is deployed. As cloud computing has developed, different vendors offer clouds that have different services associated with them. The portfolio of services offered adds another set of definitions called the service model.

- **Infrastructure as a Service:** IaaS provides virtual machines, virtual storage, virtual infrastructure, and other hardware assets as resources that clients can provision. The IaaS service provider manages all the infrastructure, while the client is responsible for all other aspects of the deployment. This can include the operating system, applications, and user interactions with the system.
- **Platform as a Service:** PaaS provides virtual machines, operating systems, applications, services, development frameworks, transactions, and control structures. The client can deploy its applications on the cloud infrastructure or use applications that were programmed using languages and tools that are supported by the PaaS service provider. The service provider manages the cloud infrastructure, the operating systems, and the enabling software. The client is responsible for installing and managing the application that it is deploying.

# Access to Healthcare : A Comprehensive Framework

Dr. Bhupinder Chaudhary\*  
Dr. Kinjal Jani\*\*

## ABSTRACT

Access is considered central to the index of performance of health care system in world. Access is considered as the bridge between expectations and characteristics of the patients and health care providers. However, since long-time health care access remains a complex notion as exemplified in the numbers of interpretations of the concept across experts. According to the Panchansky and Thomas' theory, under the umbrella of access there are five dimensions: accessibility, affordability, availability, acceptability, and accommodation. Although, these dimensions are independent, they are interconnected and each one is crucial to evaluate the achievement of access. However, Emily Sauman proposed that awareness must be the sixth dimension and it should be included in the theory, and be used whenever using the theory to plan, execute and evaluate health care services and its access. In the development agenda of 2015 universal health coverage has been marked as a promising umbrella tool for health. Universal access to health services and universal health coverage are complementary to each other. The vision of universal health coverage is unrealistic without achieving universal access. In this paper, we discuss various dimensions of access to healthcare which strengthens the framework for comprehensive health care access of services.

**Keywords :** Health Services, Access, Theory

### Introducing Access to Healthcare

Access is considered central to the index of performance of health care system in world. Access is considered as the bridge between expectations and characteristics of the patients and health care providers. However, since long-time health care access remains a complex notion as exemplified in the numbers of interpretations of the concept across experts. Access to care is one of the basic human rights. From the patient corner, access is to get right care, from right provider, at right place. until 1981, access was understood as an important in healthcare services, but not clearly described and ambiguous in the terminology of research. In the context of many theories, access is understood with health insurance coverage.

According to AHA, "Inaccessible geographic location, undersized, shortage of manpower, and often limited financial resources create a unique set of challenges for rural health care providers and regions"

### Sources of Data

Secondary data collected from the public domain, reputed journals, periodical, literature and web sources.

### Theories of Access to Health Care

In 1972, Donabedian narrated that "the confirmation of access means the utilize of service, not merely the availability of a facility but evidence of access is much more than revealing use of services". Use of health

\* Assistant Professor



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ઋગ્વેદના પ્રત્યેક સૂક્તના કોઈ એક દેવતા હોય છે. આ દેવતાની તે સૂક્તમાંના મંત્રોથી સ્તુતિ કરવામાં આવી હોય છે અને તેની પાસે કોઈક અભીષ્ટ વસ્તુની પ્રાર્થના કરવામાં આવી છે. યાસ્કે દેવતા શબ્દનું નિર્વચન આપ્યું છે કે - દેવો દાનાદ્ દ્યોતનાદ્ વીપનાદ વા। યાસ્કે નિરુક્તના સાતમા અધ્યાય 'દેવતકાંડ' માં દેવતા વિષયક વિચારો રજૂ કર્યા છે. જેમાં દેવતાઓની સંખ્યા બાબતે ત્રણ મતો રજૂ કર્યા. ૧. એક દેવતાવાદ ૨. ત્રણ દેવતાવાદ અને ૩. બહુ દેવતાવાદ તેમણે દેવતાઓને ત્રણ સ્થાનમાં વિભાજીત કર્યા છે. ૧. પૃથિવી સ્થાન, ૨. અન્તરિક્ષ સ્થાન ૩. ધુસ્થાન. વેદકાળના ઋષિઓએ પ્રાકૃતિક શક્તિઓને 'દેવતા'નું સ્વરૂપ આપીને તેની વેદમંત્રોમાં સ્તુતિ કરી છે.

ઋગ્વેદનાં કુલ ૨૦ સૂક્તોમાં ઉષાદેવીની સ્તુતિ કરવામાં આવી છે. વેદમંત્રોમાં ઉષા દેવતાનું વર્ણન કાવ્યાત્મક પદ્ધતિએ થયું છે. લગભગ ૯૨ જેટલાં ઋષિઓના મંત્રોમાં ઉષા દેવતાનું વર્ણન પ્રાપ્ત થાય છે. ઉષા દેવતા સંબંધી વેદમાં પ્રયોજાયેલ વિશેષણો સાર્થક અને ગુણદર્શક છે.

વૈદિક ઋષિઓની દષ્ટિએ તો ઉષા દિવ્યલોકની 'કન્યા' છે. કન્યા (ઋ. - ૧/૧૨૩/૧૦), 'પુત્રી' છે. દિવઃ દુહિતા (ઋ. - ૧/૩૦/૩) ઉષાને ઘાવા પૃથિવીની પુત્રી પણ કહી છે તે શ્રેષ્ઠ કુળમાં ઉત્પન્ન થઈ હોવાથી એને 'અર્યા' કે 'શ્રેષ્ઠતમા' પણ કહી છે. (ઋ. - ૧/૧૧૩/૧૨) એને ભગ દેવતાની તેમજ વરુણદેવની બહેન પણ કહી છે. ભગસ્ય સ્વસા, વરુણસ્ય જામિઃ। (ઋ. ૧/૪૮/૩; ઋ. ૧/૧૨૩/૫). તેને અનેક મંત્રોમાં યુવતી, તરુણી, પત્ની તેમજ પણ રણ રૂપે પણ વર્ણવી છે.

ઉષા પ્રશંસનીય ગુણોથી સંપન્ન છે. તે તો ઋષિઓ દ્વારા પ્રશંસનીય અને અનેક દ્વારા સ્વાગત કરાયેલી છે. ઋષિસ્તુતા, પુરુહૂતા। તે તો સમગ્ર વિશ્વ દ્વારા વર્ણનીય અને સૌ દ્વારા આદરણીય બનેલી છે. 'વિશ્વ વારા', 'વિશ્વ-મિત્રા' (ઋ. ૧/૧૧૩/૧૯; ઋ. ૬/૬૪/૪). તે વીર પત્ની હોવાની સાથે-સાથે વીર પુત્રોને ઉત્પન્ન કરનારી પણ છે. 'વીરવતી', 'સર્વવીરા' (ઋ. ૭/૮૧/૨; ઋ. ૧/૧૧૩/૧૮).

# ઉપનિષદોનું તત્ત્વજ્ઞાન



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## ईशोपनिषद में विद्या-अविद्या

डॉ. वैशाली जे. पटेल

संस्कृत एवं भारतीयविद्या अनुस्नातक भवन,

हेमचन्द्राचार्य उत्तर गुजरात युनिवर्सिटी,

आधुनिक समय में भौतिक विद्याओं का वर्चस्व-महत्त्व बढ़ रहा है। इसलिए आध्यात्मिक एवं जीवन का संस्कार करें ऐसी विद्याओं का महत्त्व कम होता जा रहा है। दिन-प्रतिदिन भौतिक विद्याओं के अध्ययन हेतु विविध टेकनिकल महाविद्यालयों एवं विश्वविद्यालयों की स्थापना प्रचुर मात्रा में हो रही है। परिणामस्वरूप धर्म, दर्शन, अध्यात्म जैसे विषय उपेक्षित होते जा रहे हैं। ऐसी परिस्थितियों में ईशावास्य उपनिषद ने दोनों प्रकार की विद्याओं (भौतिक एवं आध्यात्मिक) का समन्वय हो, इस हेतु तात्त्विक विश्लेषण करके मानवजात को संदेश दिया है कि केवल भौतिक विद्या से या केवल आध्यात्मिकविद्या से मानवजीवन अपूर्ण रहता है। मानवजीवन का सर्वांगी विकास करना हो तो मनुष्य को भौतिक और आध्यात्मिक दोनों प्रकार की विद्याओं का सेवन करना चाहिए। ईशावास्योपनिषद के ऋषि भौतिक विद्या को 'अविद्या' कहते हैं और आध्यात्मिक विद्या को 'विद्या' कहते हैं। तो इसी उपनिषद में विद्या और अविद्या को संभूति और असंभूति कहा है। मुख्यतया ईशोपनिषद के मंत्र ९, १०, ११ में इस की विस्तृत चर्चा हुई है।

ईशोपनिषद के नव से ग्यारह मंत्र तक विद्या-अविद्या की मीमांसा की गई है। लेकिन विद्या और अविद्या की उपासना से मनुष्य की जो स्थिति होती है, इस का निरूपण इस प्रकार किया गया है।

अन्यं तमः प्रविशन्ति य अविद्यामुपासते ।

ततो भूय इव ते तमः य उ विद्यायां रताः ॥'

जो केवल अविद्या की उपासना करता है, वह घोर अंधकार में प्रवेश करता है, किन्तु विद्या की उपासना करनेवाला उससे भी ज्यादा अंधकार में प्रवेशता है।

इस आत्मतत्त्व को विद्या से भिन्न बताया है और अविद्या से भी भिन्न कहा है। जिसने हमको उसका



## Isolation and Identification of Nitrogen Fixing Bacteria: *Azoarcus* Species

Rashmi Thakor, Harsh Mistry, and Himanshu Bariya

### Abstract

Nitrogen is the most important element for all the organisms. It is beneficial for the growth and development of plants. Biological nitrogen fixation is found to be an efficient approach for the availability of nitrogen to the plants using diazotrophic bacteria such as *Azoarcus* species. The present chapter focuses on the methods for the isolation of *Azoarcus* species on different media and its identification using 16S rDNA sequencing with specific primers for *Azoarcus*, as the potent nitrogen fixing bacteria from different sources.

**Key words** *Azoarcus* spp., Isolation, Identification, Characterization, 16S rDNA sequencing, Nitrogen fixing bacteria

### 1 Introduction

Nitrogen is an indispensable element of life which plays a significant role in building proteins and DNA. Despite of being available in massive amounts in the atmosphere, limited quantity of soil inorganic nitrogen is attainable to plants in the form of ammonium and nitrate, often limiting agricultural yields by nitrogen availability. Thus, biological nitrogen fixation seems to be an effective approach for providing nitrogen to crops and plants. For the sustainable agricultural production and better functioning of ecosystem, biological nitrogen fixation in plants seems to be an important mechanism. Biological nitrogen fixation is carried out by bacteria, especially rhizobacteria, archaea, prokaryotes such as diazotrophs (free-living or present in symbiosis), etc. Among diazotrophs, *Azoarcus* was found to be an efficient colonizer and sequenced genome [1, 2].

*Azoarcus*, genus of Gram-negative bacteria, is classified among the family *Rhodocyclaceae* of the order *Rhodocyclales* in the class *Betaproteobacteria*. The fatty acid profile of the members of *Azoarcus* indicates  $C_{16:0}$ ,  $C_{16:1}$ , and  $C_{18:1}$  as the considerate fatty acid and



## Isolation and Identification of *Trichoderma* Spp. from Different Agricultural Samples

Harsh Mistry and Himanshu Bariya

### Abstract

*Trichoderma* can be isolated from soil, water, plant root, and decaying plant. *Trichoderma* plays key role in biocontrol of plant pathogens, plant growth promotion, and acts as a biofertilizer. In this chapter, easy and detailed steps have been described for the isolation and identification of *Trichoderma* spp. from different sources. *Trichoderma* can be isolated on Rose Bengal agar and *Trichoderma* selective agar medium. For species-level molecular identification, ITS amplification and sequencing as well as specific primers have been described.

**Key words** *Trichoderma* spp., *Trichoderma* selective agar medium, ITS region amplification, Sequencing, Species-specific primers

### 1 Introduction

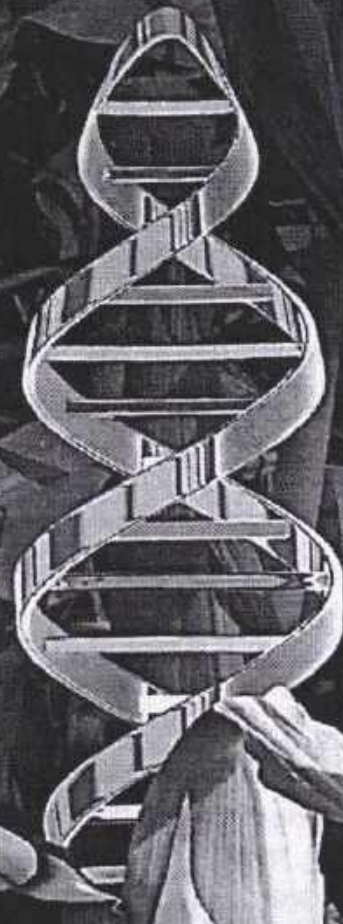
Fungi from genus *Trichoderma* are very significant microorganisms as they possess various biopotentials like robust producers of antibiotics, industrial enzymes, and used as a biocontrol agent against numerous plant pathogens. They are abundantly found in soil, water, decaying plant tissues, and in the plant root system [1]. *Trichoderma*, a tremendous biocontrol agent which enhances the plant resistance against pathogen (e.g., *Aspergillus niger*, *Fusarium oxysporum*, and *Sclerotium rolfsii*), promotes plant growth by acting as a biofertilizer and also improves quality of soil. *Trichoderma harzianum* is reported for enhanced growth and yield of tomato and onion by secreting natural auxins like indole acetic acid (IAA), indole butyric acid (IBA), and gibberellic acid (GA3) and also increased efficiency of nutrient uptake in plants [2–4]. *Trichoderma* is also known for the stimulation of plant-defense response against different abiotic stress conditions (e.g., drought, water logging, mineral toxicity, extreme salinity, and temperatures). *Trichoderma harzianum* had shown its potential against drought when



# Approaches for Enhancing Abiotic Stress Tolerance in Plants

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# 10 Nutrient Deficiency and Toxicity Stress in Crop Plants

## *Lessons from Boron*

*Himanshu Bariya, Durgesh Nandini, and Ashish Patel*

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### 10.1 INTRODUCTION

The field of plant abiotic stress contains all studies on abiotic factors or stress conditions in the environment that can inflict stress on a variety of species (Sulmon et al., 2015). This stress includes acute levels of light (high and low), radiation (UV-B and UV-A), temperature (high and low [chilling, freezing]), and water (drought, flooding, and submergence), chemical factors (heavy metals and pH), salinity due to excessive  $\text{Na}^+$ , nutrients stress (deficient or excessive essential nutrients), gaseous pollutants (ozone, sulfur dioxide), mechanical factors, and other less-frequently occurring stressors. Since combinations of these stresses, such as heat and drought, frequently occur under field conditions and can cause unique effects that cannot be predicted from individual stress

(Suzuki et al., 2014), a multiplicity of physiological interactions can be expected, needing individual novel solutions.

One of the most important stresses is nutrient stress. Essential mineral nutrients play key roles in many aspects of plant metabolism, growth, and development. There is, therefore, a very wide spectrum of responses to nutrient stresses. Typically, the nature of the responses to a particular nutrient stress depends upon which plant processes are most sensitive to that stress and the severity of the stress. These may vary between species. They may also vary between genotypes within the same species and so reflect genotypic differences in nutrient efficiency related to differences in nutrient acquisition and/or utilization. Such differences provide plants with avenues that enable them to adapt to moderate nutrient stresses. Plant breeders are successfully exploiting these adaptive traits to produce

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Policy makers in India and other developing countries, since last decade, are talking about creating what they called the 'World Class' universities. When it comes to the Indian scenario, we have a very complex situation out there. Indian Higher Education system suffers from a lack of adequate financial resources, intellectual resources, and the government will, in absence of which, the creation of academics is undesirable in the hands of the bureaucracy. And when such fashion overhypes, and talks about creating World-Class universities instead of tackling any constraints in the existing system, it becomes tricky. It is important to appreciate the ideas of institution building and global excellence that would constitute a World-Class university. There may not be a global consensus on the definition of what a 'world-class university' is. This book is a humble effort to assimilate different views and informed opinions of the senior and experienced fraternity from various areas of Higher Education.



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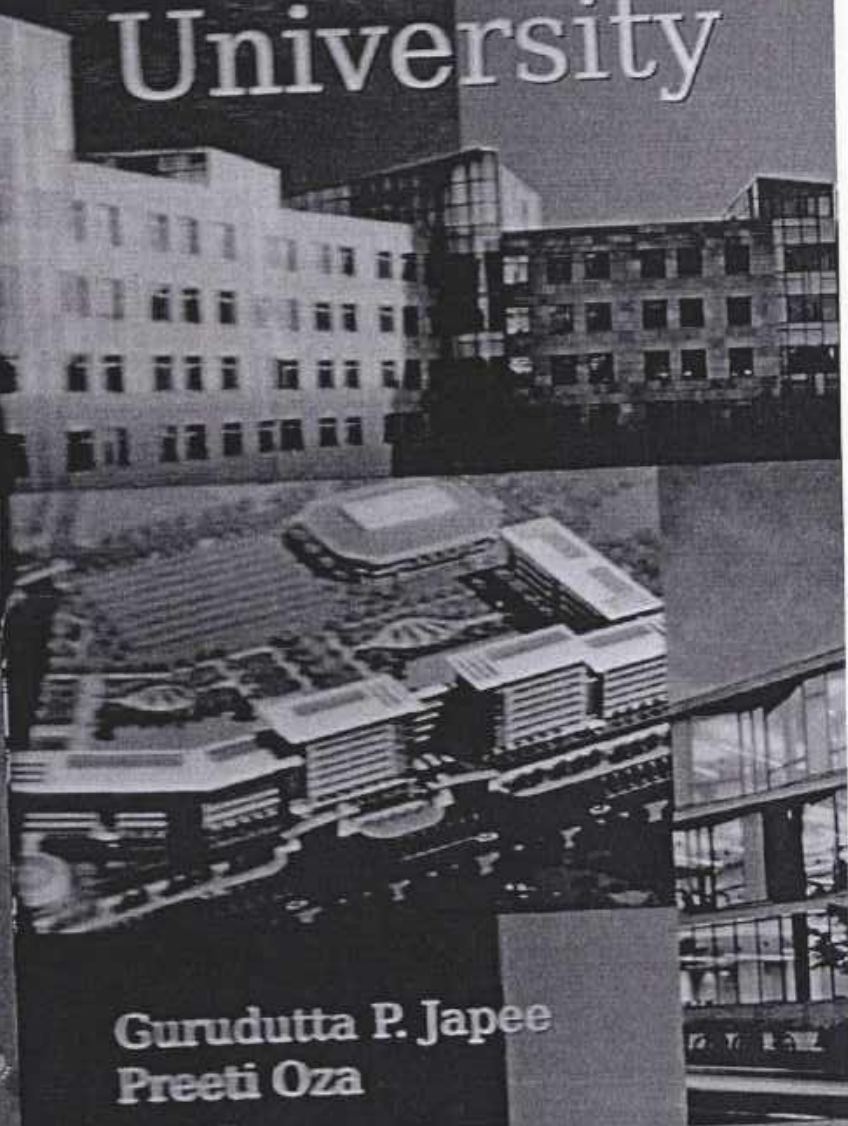
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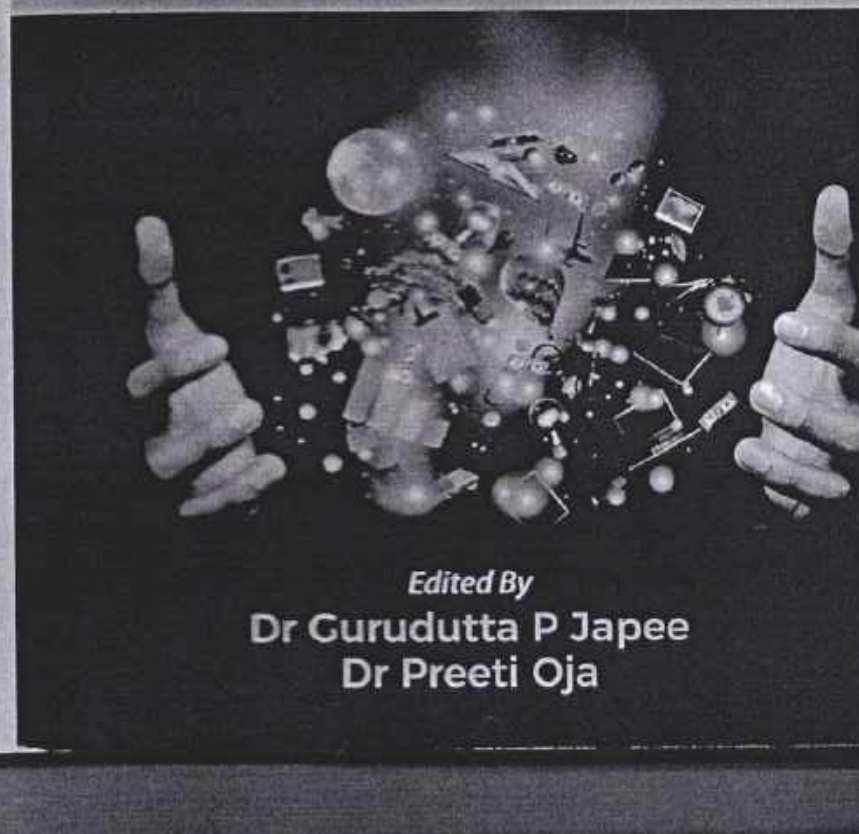
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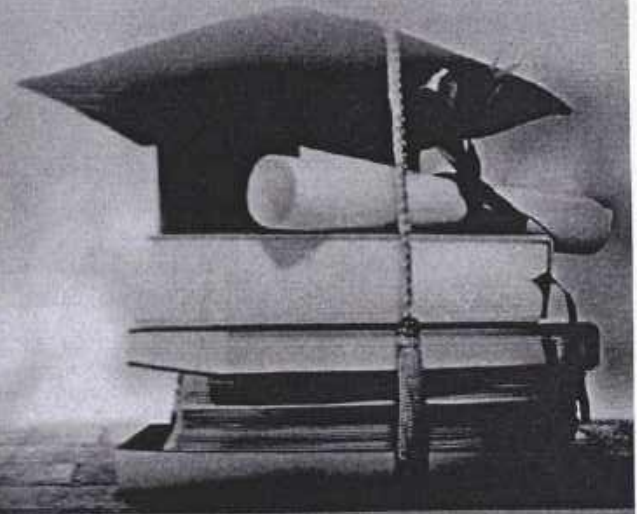
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**Dr. Gurudutta P. Japee**

**About the book:**

The present book comprises of 18 scholarly articles of different authors on various issues and challenges of the Self Reliant Mission of Government of India. Apart from theoretical issues, the case studies related to skill education among the professional students, women self help groups, female labour work force, healthcare system, agrarian crisis, local products like Purabi Dairy are included in the book. The present volume will be very useful handbook for the policy makers in general and for researchers who are interested to study on development issues in particular.

**About the Editor**

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**A. Ibemcha Chanu**

Self-Reliant India: Issues & Challenges

A. Ibemcha Chanu

# Self-Reliant India

**Issues & Challenges**

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# Business & Trade Practices During and After Corona Pandemic

Editors:

Prof. Shailendra Singh Bhadouria

Dr. Satish Modi



# Healthcare Financing System in India : Issue and Way Forward

Dr. Nimesh P. Bhojak\*  
Mr. Naitik Patel\*\*

## ABSTRACT

The economy has duplicated in size many occasions over yet we keep on staying a 'poor country' with regards to financing wellbeing. Unexpectedly, the weakness of people is currently considered in change of conveying a 'failing to meet expectations' economy, as though that were the motivation behind wellbeing. The economy is a composite and produced by the aggregate exertion of all in different backgrounds. Natives pay straightforwardly and by implication into national assessments, yet dispensing those incomes for the demonstrated wellbeing needs of the populace has numerous layers of troubles. Unacceptable budgetary assignments have prompted gathered neglected needs throughout the decades in both the consideration searcher and guardian organization. Absence of limit creation from under-subsidizing has prompted a powerlessness to use reserves which contention is then used to deny extra assets. Such a straightforwardly administered framework ought to be driven by the possibility of congruity and maintainability as opposed to profiteering. Counting speculation from the proper economy with practical development desires can fill in as a driver as opposed to be the unrivaled wellspring of use.

**Keywords :** Healthcare, Economics, OOPF, Insurance

### Introduction

The disregard of the general wellbeing framework in India and its aftermath on progressive ages have frequently been talked about. Wellbeing lists reflect agonizingly moderate increases. Most Indians appear to be persuaded by the common subjects of being a poor country and along these lines being not able bear the cost of their own wellbeing. The word 'bear' has progressed toward becoming piece of the national wellbeing dictionary as far back as the Bhore Committee (1957) presented its report on the structure of wellbeing administration that could profit India (Woodruff, 1957). That assurance of 'exorbitance' has pushed numerous individuals into the market to proceed to purchase their own wellbeing. Despite the fact that wellbeing is certifiably not political need so far, two dreams of things to come wellbeing strategy appear to be plainly developing. One upheld by the Govt. — a unified emergency clinic protection driven wellbeing framework structured on Medicare model of the US (Trochim, Cabrera, Milstein, Gallagher, & Leischow, 2006). The other, of resistance groups, calling for ensuring each resident with access to fundamental wellbeing administration taking after the UK and the European model (Drinkwater, Eade, & Garapich, 2009). Both these methodologies are broadly different and will significantly affect the quality and moderate nature of the framework — access

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## Burden of Non-Communicable Diseases : Contemporary Challenge and The Way Forward

Dr. K.K. Patel\*  
Dr. Harsh Vyas\*\*

### ABSTRACT

A non-communicable diseases (NCDs) are also called as chronic diseases which are not transmitted directly from one person to another. NCDs are likely of lengthy duration and progress slowly. 21<sup>st</sup> century is facing numbers of health and developmental challenges, NCD is one among them. Physiological, environmental and behaviors factors are the responsible factors for their occurrence. NCDs hold a huge cost that extends beyond health, creating enormous discrepancy in terms of opportunity, wealth and resources. Diseases like blood sugar, heart diseases, injuries, mental disorders and cancers, those are grouped under NCDs are slowly increasing burden of diseases globally. Majority of NCDs are present in person aged 55 years and above in developed countries, while in India, their onset are starting a decade early means around 45 years of age. Aggravation of these problems are responsible for the occurrence of many persistent diseases, on top of it, due to lack of awareness and insufficiency of accessibility of health care services many chronic conditions remain undiagnosed. In present paper, we described the prevalence and flow of NCDs in India. It is certainly true that Majority of NCDs are having common causative factors, for these interventions such as behavioral and structural should be in the priority. Various screening and preventions may act as cost-effective policy to reduce disease burden. Multi sectoral and multilevel actions are required to address the problem of NCDs.

*Keywords: Non communicable diseases (NCD), lifestyle prevention.*

### Introduction

Physiological, environmental and behaviors factors are the responsible factors for their occurrence. NCDs hold a huge cost that extends beyond health, creating enormous discrepancy in terms of opportunity, wealth and resources. NCDs hold a huge cost that extends beyond health, creating enormous damages in terms of opportunity, wealth and resources. Physiological, environmental and behaviors factors are the responsible factors for their occurrence. NCDs hold a huge cost that extends beyond health, creating enormous discrepancy in terms of opportunity, wealth and resources. NCDs such as cardiovascular (i.e., stroke and heart attacks), chronic respiratory disease (i.e., COPD, asthma), cancers and metabolic diseases such as diabetes are widely seen.

### Methodology

Secondary data based study based on public domain, literature review, books and online journals and web sources.

### Global Burden of NCDs<sup>1</sup>

- Globally, every year 41 million people (approximately 71%) die due to non communicable diseases.
- 15 million people who come under age group of 30 to 69 years, die because of NCDs. Moreover,

(43)



ફોજદારી કાર્યવાહી અને આરોપીના અધિકાર

# ફોજદારી કાર્યવાહી અને આરોપીના અધિકાર

## લેખક પરિચય



ડૉ શ્રેષ્ઠ ભટ્ટ, જી

શ્રેષ્ઠભટ્ટ ડૉ. જન્મ 19-8-1987 ના તેજ સભારી માતા સીમલી મુકુન્દબેન અને પિતાશી રોહિતાબાઈ ના ૧૧ બેડીલાલ ડિવિઝન બેન્ક સેવામાં જઈ ના પદે ક્રિમિનલનાર મુકામે સર્વેશ છે. ૫૨ મેલ ને ૬૫૬ ઈંચ ડ્રેસિંગ, અમાત્ય ૨૬ મેલમીલની કાઈ પાઈ ઉત્તર ગુજરાત યુનિવર્સિટી પાલુ મેલમીલ એમ.એમ ફીલ કાઈ પાઈ સી.યુ.સી. યુનિવર્સિટી વડવાલ આતેશી પીએચડીની ડીગ્રી પ્રાપ્ત કરેલ છે અને ક્રિમિનલનાર ડૉ. શ્રેષ્ઠભાઈ માત્ર ૩૨ વર્ષે મુકાઈ માત્ર વ્યાખ્યાત તરિકે કૃષ્ણ મજાઈ તમા ૨૫૫ તેમજ ૨૦૨૦ની કેમસેનમાઈ ઉત્તર ગુજરાત યુનિવર્સિટી પાલુ આને ૫૫૫૫ અનુભવાઈ વિભાગમાં કૃષ્ણ મજાઈ તમા છે. અને કુટી પુટી ડૉ. શ્રેષ્ઠભાઈ કુટા-કુટા વિષયો પર લેક્ચર આપેલ છે. તેમજ તેઓને ૫૫૫ આરએસજીવ, સર્જીવ સેમિનાર તમા સેન્ટરનામાં ભાગ લીધેલ છે. તમા પેપર પ્રેઝન્ટ કરેલ છે અને ૫૦ મુકાઈ વિષય આન અવધાઈ મુકાઈ પણ સંપાદન કરેલ છે.



ડૉ શિક્ષા વ્યાસ

શ્રેષ્ઠભાઈ ઉત્તર ગુજરાત યુનિવર્સિટી પાલુ (ગુજરાત) ના ૫૫૫૫ અનુભવાઈ કલનમાં અધિકારી પોસ્ટમાઈ. સર્જીવેશ છે. તેઓને એલ.એમ ક્રિમિનોલોજી મુકામ ૩૩ ૨૦૦૫ ૩૩ સારી ઉત્તીઈ માઈ એલ મેટર પ્રાપ્ત કરેલ છે. તેઓને કુ-સીક પ્રથમ પદાને પણ કરેલ છે. તેઓ કેમસેનમાઈ ઉત્તર ગુજરાત યુનિવર્સિટીમાં ૫૫૫૫૫ વિષયમાં પીએચડી અભર પ્રથમ મહિલા છે. તેઓનું સંશોધનનુ ટીમ ૫૫૫૫ મુકામ છે. તેઓને પ્રવેશનમાં ૫૫ વિભાગીઓને પીએચડીની ડીગ્રી મેલમેલ છે. તેઓને પણ આરએસજીવ અને સર્જીવ સેમિનાર તમા સેન્ટરનામાં ભાગ લીધેલ છે તમા પેપર પ્રેઝન્ટ કરાઈ છે.



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