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GARGAON COLLEGE

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2023-2024**

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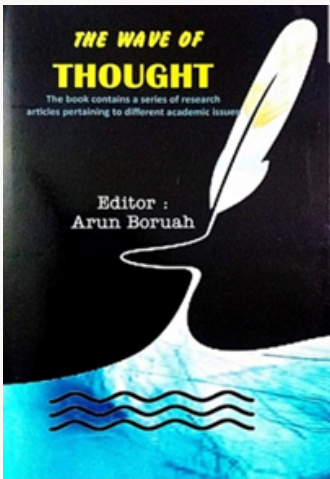




PUBLICATIONS OF DEPARTMENT OF ASSAMESE

NAME	TITLE (BOOK/CHAPTER)	TITLE OF THE PAPER	NAT./INT.	YEAR	ISSN/ISBN	AFFILIATING INSTITUTE	PUBLISHER
Runjun Hazarika	The Wave of Thought. Sankardeva r Borgeet : Ati Bhasatatk Bishleshan		National	2023	978-81-959452-2-2	Gargaon College	ACTA Research Unit
Devajani Bakalilal	Soragurir Ajan. Ajan Peerar Anupam Avadan Jikir		National	2024	978-93-94167-02-5	Gargaon College	Hazarat Ajan Peer Dargah Sanmittee
Dr. Ankur Dutta	Sahitya Academy Bota. Bijayini Asomiya. Shena Devir Ankuki Golpa: Ek Alusona		National	2024	978-93-92610-41-7	Gargaon College	Department of Assamese, Dibru College

MRS. RUNJUN HAZARIKA



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শঙ্কৰদেৱৰ বৰগীত : এটি ভাষাতাত্ত্বিক বিশ্লেষণ

অনুৰূপ হাজৰিকা
সহযোগী অধ্যাপক, গণপীঠ মহাবিদ্যালয়

সংস্কৰণ :
 বৰগীতসমূহ কেৱল অসমীয়া সাহিত্যৰে অমূল্য সম্পদ নহয় সমগ্ৰ উত্তৰপূৰ্বাঞ্চলৰ সাহিত্য ব্যৱস্থাৰ ভিতৰতে একক আৰু অন্যতম। বৰগীত হ'ল শ্ৰীমত পৰমহংসৰ আত্ম-স্বাক্ষৰিত বিচিত্ৰ মিথিলা ভাষাৰে লিখিত এক বিশেষ শৈলীৰে পৰিবেশন কৰা আধ্যাত্মিক গদ্য সৃষ্টিৰ বীজ। কথা তথ্যবিহীন মতে শাসকৰে বাস্তৱ। বৰগীত কমান কৰিছিল খ্ৰীষ্ট ধৰ্মৰে আহুত হেতুৰ সৰ্ব সৎকৰ বীজ নাই হোৱাত মাত্ৰ বেবুৰুৰ বৰগীতৰে সৃষ্টিত আহুত হোৱা হয়। মূলত বৈষ্ণৱ ধৰ্ম প্ৰচাৰৰ উদ্দেশ্যে বৰগীত সন্থ কৰা কৰা উদ্দেশ্যে লিখিছিল বৰা, হোৱা আৰু বিহাৰ বৰগীতৰ প্ৰকাশৰে বৰগীত সন্থক এক সুস্বীকৃত মন্তব্য প্ৰদান কৰিছে। বৰগীত সন্থ কৰাৰে বাবে শাসকৰে হেতুৰ সমন্বয়িত ভাষিক ৰূপৰে পৰিৱৰ্ত্তিত হোৱাৰে আশংকা কৰিছিল।

আগোৱাৰ বিখ্যাত বৰগীতৰ বাবে কৰা প্ৰচাৰণী, সন্থক, আৰু আঁঠম অসমীয়া আৰম্ভ কৰাৱাৰে বিহাৰৰ কৰাৰ উদ্দেশ্যে সন্থ কৰা হৈছে।

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DR. ANKUR DUTTA



Sahitya Akademi Banta Bijayini Assamiya: A Collection of Articles about Sahitya Akademi award winning Books written by Assamese women writer. Edited by Dr. Mausumi Dutta and published by the Department of Assamese, Dibrugarh College, Dibrugarh on behalf of Ramdhenu Printing, Dowareshchuck, Dibrugarh. First Published: March, 2024. Price: 350/- ISBN: 978-93-92610-41-7

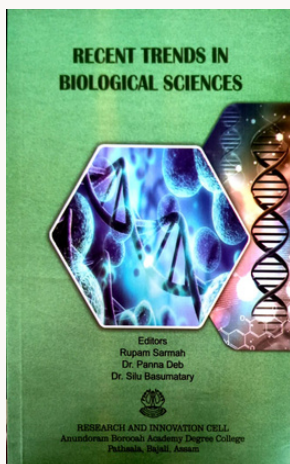
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PUBLICATIONS OF DEPARTMENT OF BOTANY

NAME	TITLE (BOOK/CHAPTER)	TITLE OF THE PAPER	NAT./INT.	YEAR	ISSN/ISBN	AFFILIATING INSTITUTE	PUBLISHER
Miss Sandeepa Agarwalla	Recent Trends in Biological Sciences: "Ecohydrology: A Review"		National	2024	978-93-6252-833-9	Gargaon College	Research and Innovation Cell, Anundoram Barooah Academy Degree College, Barpeta
Miss Sandeepa Agarwalla	Futuristic Trends in Pharmacy and Nursing: Prodrug Based Nanoparticle Therapeutics: Challenges and Future Prospects		National	2024	978-93-6252-833-9	Gargaon College	IIP Series

SANDEEPA AGARWALLA



RECENT TRENDS IN BIOLOGICAL SCIENCES
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HYDROPONICS: A NEW APPROACH
 Sandeepa Agarwalla* and Khusboo Agarwal¹
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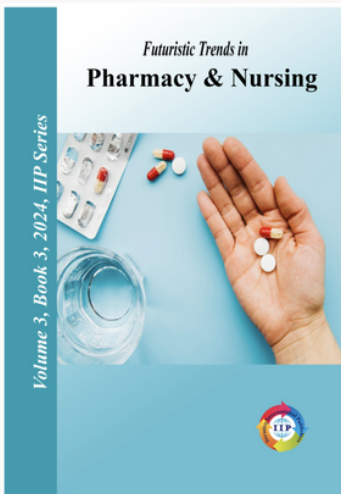
Keywords: Chemical fertilizers, soil, hydroponics, water

Abstract: With the changing time and growing urbanization, there is a decline in cultivation practice along with other problems such as the decrease in land area and high use of chemical fertilizers which is resulting in poor land fertility. Hydroponics is one of the modern strategies which is being accepted for the cultivation of crops, vegetables and fruits which is not only meeting the demand of the growing population but is also trying to solve the issues related to lack of infertile soil as it is a technique which helps in growing the plants without the need of soil. There are various structures of hydroponics, all with their pros and cons. In the present article an attempt is made on the overview of hydroponics.

INTRODUCTION

The term "Hydroponics" was derived from the Greek words 'hydro' which means water and 'ponos' which means labour (Beibel, 1960). Hydroponics is one of the two methods of soil-less culture. The other is 'aeroponics' which is the practice of growing crops in a moist environment. Hydroponics simply means

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FUTURISTIC TRENDS IN PHARMACY & NURSING
 PRODRUG BASED NANOPARTICLE THERAPEUTICS: CHALLENGES AND FUTURE PROSPECTS

Abstract
 Prodrug was introduced to overcome certain problems in the drugs which consequently led the scientists to switch from the traditional methods in producing classical prodrugs to designing and involving prodrugs in the coming years. Prodrug-based nanoparticles will be a focus for the researchers to develop drugs to cure chronic illness as it improves efficacy and lowers side effects. The current review paper tries to focus on the benefits, challenges and the future prospects of prodrug-based nanoparticles.

Keywords: Prodrug, nanoparticle, chronic illness, cancer, prodrug-based nanoparticle, drug delivery

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PRODRUG BASED NANOPARTICLE THERAPEUTICS: CHALLENGES AND FUTURE PROSPECTS

1. INTRODUCTION

Prodrugs are particles which are pharmacologically inactive but when introduced inside a host body become active due to enzymatic actions [1-3]. It is basically a drug coated with a safe moiety to make it inactive due to various properties of the drug which after intake becomes dissolved or deposited in Figure 1. The prodrug approach was developed to eliminate some undesirable physicochemical, biological and organoleptic properties of some existing drugs. Some prodrugs are linked with two moieties instead of one and such prodrugs are called "Co-drugs" or "Mutual prodrugs". A few examples of co-drugs are salicylic acid, salicylic acid, salicylic acid, salicylic acid. Over the past few decades, it has experienced tremendous success and is now regarded as a promising and well-established method for the creation of new entities with superior efficacy, selectivity, decreased toxicity and increased biocompatibility [4].

Figure 1: Schematic representation showing the concept of Prodrug

Prodrug uses various tactics to optimize pharmacokinetics (drug delivery) and pharmacodynamic properties to increase toxicity and to aim specific tissues or cells in order to make a prodrug more approachable, it is made susceptible to various enzymes by functionalization with a group that can be cleaved to produce active form [5]. Prodrug have various benefits that helps in cellular uptake, progresses in biological conversion pathways, increase duration of action of medication, improves pharmacokinetic properties, etc.

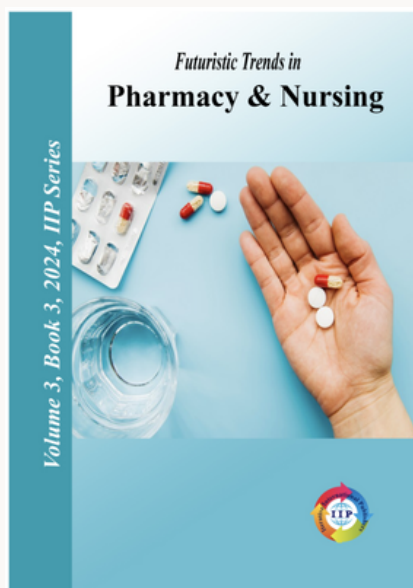
Prodrug-based nanoparticle is the encapsulation of drug/prodrug within nanostructures that helps in improving the kinetics as well as therapeutic efficacy of the drug. Although challenging, it has potential in the near future to overcome issues related to oncology and other therapeutic areas. The development of nanotechnology has led a substantial progress on medication delivery during the past ten years, where it focuses on developing nanoscale particles in order to improve the medication delivery [6-8]. In this chapter we will be focusing on prodrug-based nanoparticle drug delivery strategy in combination with cancer therapy as prodrug-mediated and nanotechnology-mediated treatments stand at the forefront of cancer management these days. In view of the fast development of anti-cancer strategy, this chapter focuses on the most recent advances of prodrug-based nanoparticle drug

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PUBLICATIONS OF DEPARTMENT OF CHEMISTRY

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Dr. Pakiza Begum	Futuristic Trends in Pharmacy and Nursing: Prodrug Based Nanoparticle Therapeutics : Challenges and Future Prospects		National	2024	978-93-6252-833-9	Gargaon College	IIP Series

DR. PAKIZA BEGUM



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Abstract

Prodrug was introduced to overcome certain problems in the drugs which consequently led the scientists to switch from the traditional methods in producing classical drugs to designing and making prodrugs. In the coming years, prodrug-based nanoparticles will be a focus for the researchers to develop drugs to cure chronic illness as it improves efficacy and lessens side effects. The current review paper tries to focus on the benefits, challenges and the future prospects of prodrug-based nanoparticles.

Keywords: Prodrug; nanoparticle; chronic illness; cancer; prodrug-based nanoparticle; drug delivery

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I. INTRODUCTION

Prodrugs are particles which are pharmacologically inactive but when introduced inside a host they become active due to enzymatic actions [1-3]. It is basically a drug coated with a safe moiety to make it inactive due to various properties of the drug which after intake becomes dissolved as depicted in Figure 1. The prodrug approach was developed to eliminate some undesirable physicochemical, biological and organoleptic properties of some existing drugs. Some prodrugs are linked with two moieties instead of one and such prodrugs are called "Coadrugs" or "Mutual prodrugs". A few examples of coadrugs are sulfasalazine, mesalazine, latanoprostene bimatoprost, etc. Over the past few decades, it has experienced tremendous success and is now regarded as a promising and well-established method for the creation of new entities with superior efficacy, selectivity, decreased toxicity and increased bioavailability [4].

Figure 1: Schematic representation showing the concept of Prodrug.

Prodrug uses various tactics to optimize pharmacokinetics (drug delivery) and physicochemical properties to decrease toxicity and to aim specific tissues or cells. In order to make a prodrug more approachable, it is made susceptible to various enzymes by functionalization with a group that can be cleaved to produce active form [5]. Prodrug have various benefits that helps in cellular uptake, precursors in biological conversion pathways, increase duration of action of medicines, improves pharmacokinetic properties, etc.

Prodrug-based nanoparticle is the encapsulation of therapeutics within nanocarriers that helps in improving the kinetics as well as therapeutic efficacy of the drug. Although challenging, it has potential in the near future to overcome issues related to oncology and other therapeutic areas. The development of nanotechnology has had a substantial influence on medication delivery during the past ten years, where it focuses on developing nanoscale particles in order to improve the medication delivery [6-8]. In this chapter we will be focusing on prodrug-based nanoparticulate drug delivery strategy in combination with cancer therapy as prodrug-mediated and nanomedicine-mediated treatments stand at the forefront of cancer management these days. In view of the fast development of anti-cancer strategy, this chapter focuses on the most recent advances of prodrug-based nanoparticle drug

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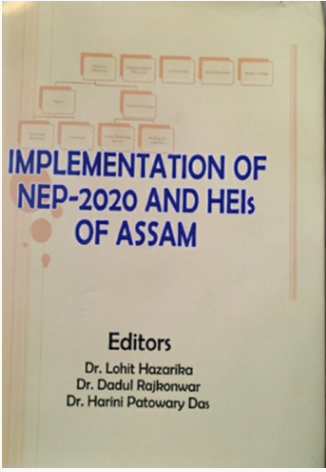


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Dr. Meghali Bora	Implementation of NEP-2020 HEIs of Assam	Regional	2023	976-93-5779-838-9	Gargaon College	Lakhimpur Commerce College
Mr. Anil Tanti	Research Trends in Multi-Disciplinary approach - The Collective	National	2023	978-81-966358-4-8	Gargaon College	Vaagdevi Publishers
Mr. Anil Tanti	Research Trends in Multi-Disciplinary approach - The Collective. Socio Economic Status of Tea Garden Workers with special reference to Behora Tea Estate of Golaghat District in Assam	National	2023	978-81-966358-4-8	Gargaon College	Vaagdevi Publishers
Ms. Nomami Dutta	Research Trends in Multi-Disciplinary approach - The Collective: A Comprehensive Examination of "Ayushman Bharat" and Its Implications For Universal Healthcare	National	2023	978-81-966358-4-8	Gargaon College	Vaagdevi Publishers
Dr. Nazreen Parveen Ali	Research Trends in Multi-Disciplinary approach - The Collective. Festive Mood of Stock Market Returns: a study on the impact of Indian Festivals on Movement of Indian Capital Markrt	National	2023	978-81-966358-4-8	Gargaon College	Vaagdevi Publishers
Dr. Nazreen Parveen Ali	Dimensions of Recent Trends in Research: A Multidisciplinary Approach	National	2024	978-81-972526-1-7	Gargaon College	Vaagdevi Publishers



DR. MEGHALI BORA



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AN ANALYSIS OF NATIONAL EDUCATION POLICY (2020) WITH SPECIAL REFERENCE TO HIGHER EDUCATION SYSTEM IN INDIA: IMPACT OF NATIONAL EDUCATION POLICY, 2020 ON HIGHER EDUCATION

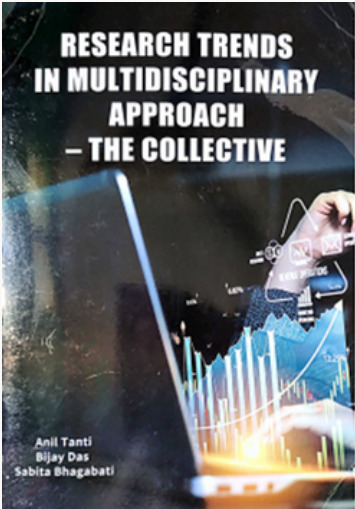
Dr. Meghali Bora

INTRODUCTION:

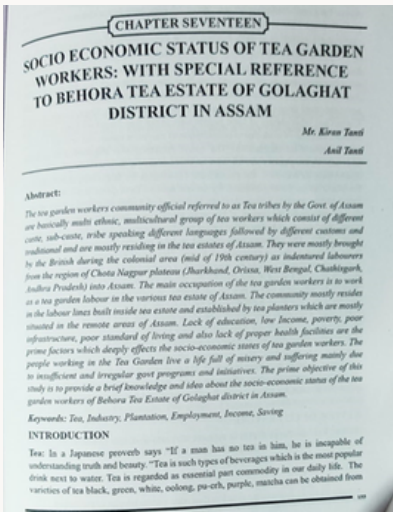
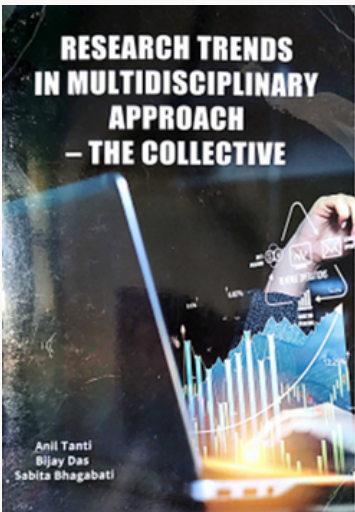
Education is the guiding force or power which conducts an individual's nation for its development. Every country of the world introduces a definite education policy for its progress. Our country India also, after her independence, introduced several national education policy and commissions from time to time. In 1964, Radhakrishnan Commission was formed which put importance upon higher education. In 1952 Madhaviah Commission was formed which put importance both on primary and higher education. In 1968 the first NEP was introduced by Prime Minister Indira Gandhi on the basis of the recommendation of the Kothari Commission which had recommended changes in education by introducing 10+2+3 system. Again NEP 1986 was introduced by Prime Minister Rajiv Gandhi whose goal was to make 100% literacy or universal literacy in the nation. An NEP, 1986 could not fulfill the goal of 100% literacy or universal literacy, so on 29th July, 2020 a National Education Policy was introduced by Prime Minister Narendra Modi cabinet under the chairmanship of an eminent scientist Dr. K. Kasturirangan. Just like the National Education Policy

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MR. ANIL TANTI



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CHAPTER SEVENTEEN

SOCIO ECONOMIC STATUS OF TEA GARDEN WORKERS: WITH SPECIAL REFERENCE TO BEHORA TEA ESTATE OF GOLAGHAT DISTRICT IN ASSAM

Mr. Eiran Tanti
Anil Tanti

Abstract:

The tea garden workers community official referred to as Tea tribes by the Govt. of Assam are basically multi ethnic, multicultural group of tea workers which consist of different caste, sub-caste, tribe speaking different languages followed by different customs and traditions and are mostly residing in the tea estates of Assam. They were mostly brought by the British during the colonial era (mid of 19th century) as indentured labourers from the region of Chota Nagpur plateau (Jharkhand, Orissa, West Bengal, Chhatisgarh, India Pradesh) into Assam. The main occupation of the tea garden workers is to work as a tea garden labour in the various tea estate of Assam. The community mostly resides in the labour lines built inside tea estate and established by tea planters which are mostly situated in the remote areas of Assam. Lack of education, low income, poverty, poor infrastructure, poor standard of living and also lack of proper health facilities are the prime factors which deeply affects the socio-economic status of tea garden workers. The people working in the Tea Garden live a life full of misery and suffering mainly due to inefficient and irregular govt programs and initiatives. The prime objective of this study is to provide a brief knowledge and idea about the socio-economic status of the tea garden workers of Behora Tea Estate of Golaghat district in Assam.

Keywords: Tea, Industry, Plantation, Employment, Income, Saving

INTRODUCTION

Tea: In a Japanese proverb says "If a man has no tea in him, he is incapable of understanding truth and beauty." Tea is such types of beverages which is the most popular drink next to water. Tea is regarded as essential part commodity in our daily life. The varieties of tea, black, green, white, oolong, pu-erh, purple, matcha can be obtained from



MS. NOMAMI DUTTA



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CHAPTER FIFTEEN

A COMPREHENSIVE EXAMINATION OF 'AYUSHMAN BHARAT' AND ITS IMPLICATIONS FOR UNIVERSAL HEALTHCARE

Ms. Nomami Dutta

Abstract

The Indian government introduced the national health insurance initiative, "Ayushman Bharat", in September 2018, with a specific focus on extending healthcare coverage to underserved families in both rural and urban areas. During the initial 100 days following the program's launch, it was reported that approximately 6.55 lakh (65.500) economically disadvantaged patients had received cost-free medical treatment. Finance Minister Arun Jaitley further disclosed that an average of 3,000 claims were being settled daily since the program's rollout on September 21, 2018.

One of the driving factors behind the initiative is the limited capacity of the public health infrastructure in India, which has led many individuals to seek medical care in private hospitals. However, this ambitious scheme has raised questions among experts about the government's financial capability to sustain such a massive endeavor and whether the existing medical infrastructure can effectively cater to the healthcare needs of a vast population.

This paper critically evaluates the Ayushman Bharat program, a key component of the government's universal healthcare strategy. It relies on the analysis of secondary data collected from various organizations, employing appropriate statistical methodologies to draw informed conclusions about the scheme's impact and its feasibility. The assessment aims to provide a comprehensive overview of the initiative's strengths and weaknesses, shedding light on its potential as a transformative force in India's healthcare landscape.

Keywords: Health, Insurance, Medical facilities.

INTRODUCTION

"Health for All" is an inspiring global goal championed by the World Health Organization (WHO) since the 1970s. Its core vision is to ensure the health and well-

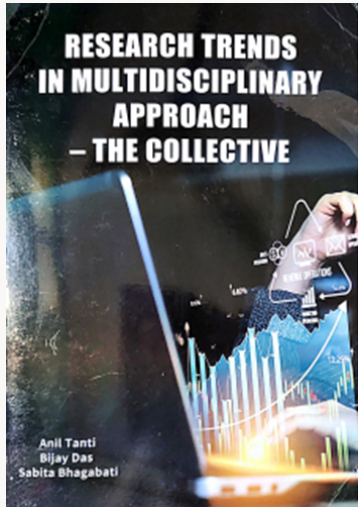
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DR. NAZREEN PARVEEN ALI



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CHAPTER SIXTEEN

FESTIVE MOOD OF STOCK MARKET RETURNS: A STUDY ON THE IMPACT OF INDIAN FESTIVALS ON MOVEMENT OF INDIAN CAPITAL MARKET

Dr. Nazreen Parveen Ali and Irfan Shaukat Ali

Abstract

The present study is an investigation of the existence of festive mood anomaly in the behavior of Indian Stock Market. Many previous literature reviews do not fully understand the movement of the Indian Stock Market with respect to Indian festivals.

This study analyzes the impacts of the widely celebrated Indian festivals on the BSE Sensex from 1st January 2008 to 31st December 2022. The pre-festival period is divided into two periods: pre-festival and post-festival. The study examines the abnormal returns of pre-festival and post-festival periods as a measure of volatility and the impact of the festival on the pre-festival and post-festival periods. The study also examines the relationship between the pre-festival and post-festival periods and the abnormal returns of pre-festival and post-festival periods. The study also examines the relationship between the pre-festival and post-festival periods and the abnormal returns of pre-festival and post-festival periods.

Keywords: Market efficiency, festive mood anomaly, pre-festival period, post-festival period.

INTRODUCTION

The Efficient Market Theory (EMT) also known as the Random Walk Theory states that all available information is at any point of time are fully reflected in the current market price. An important implication of this is that in the present efficiency market, the market price distribution of information stock prices is normally distributed.



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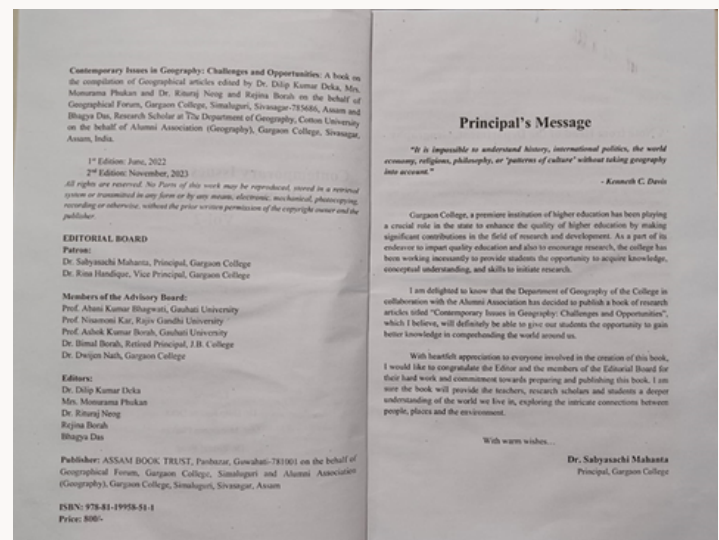
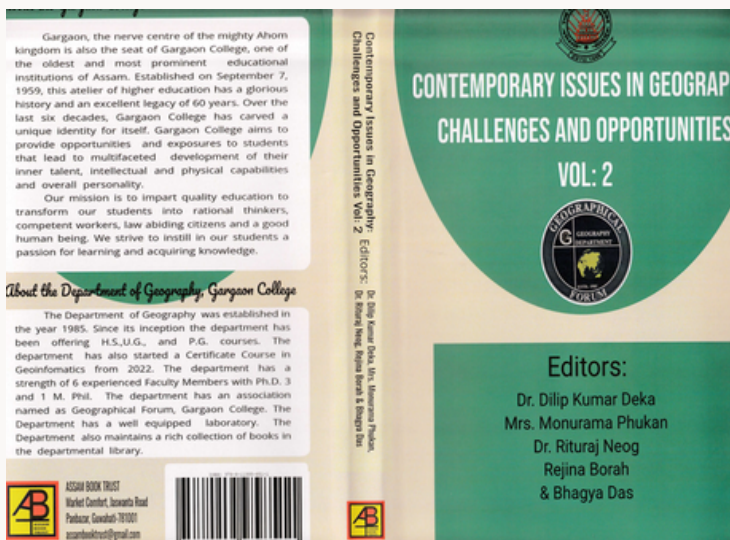
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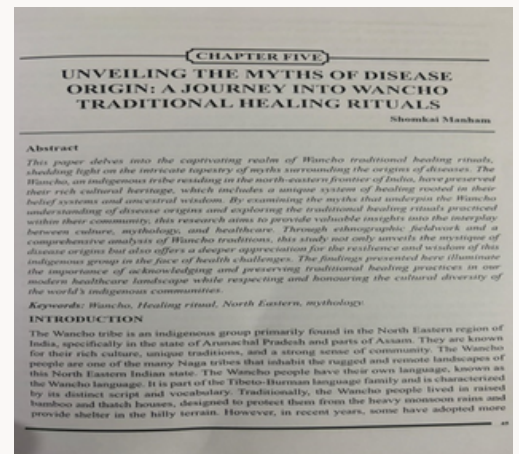
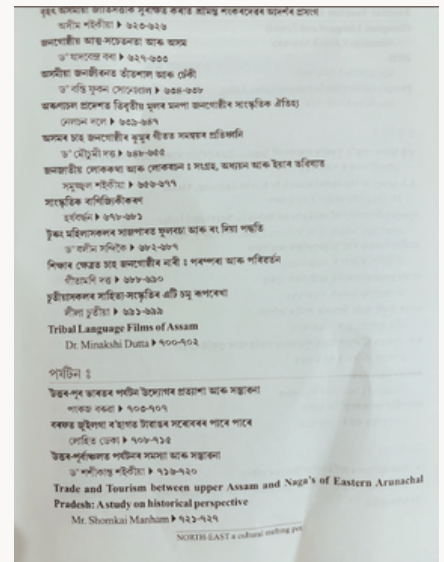
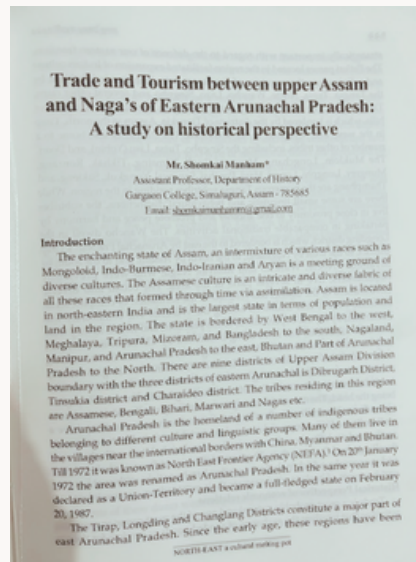




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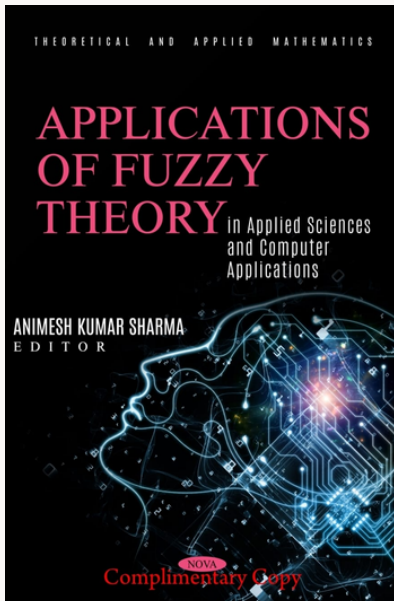




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DR. BORNALI DUTTA



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Chapter 2

Application of Fuzzy Inference System in Mortality Studies: A Review

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Abstract

The fuzzy inference system is essential in model building and the decision-making process. Lotfi A. Zadeh first proposed the concept of fuzzy set theory in the 1960s. It deals with partial truth values, ranging from entirely true to false. It has since developed into a potent tool for dealing with imprecision and uncertainty to attain tractability, robustness, and feasible solutions to problems that exist in the real world. A fuzzy inference system is widely used in analyzing mortality by different researchers. The main objective of this study is to discuss the effectiveness of fuzzy inference systems in mortality studies conducted so far by various researchers. The study also discussed the process of fuzzy inference systems, their strengths and weaknesses in model building for analyzing various mortalities, and their adaptability in the future. The use of fuzzy inference systems in mortality analysis is a relatively new field of study, and this aspect needs to be addressed. As the fuzzy inference system becomes an efficient tool in building a computational interface for prediction, this paper will help various

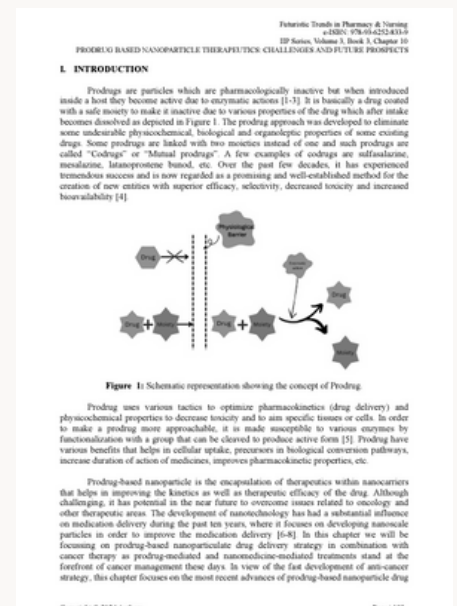
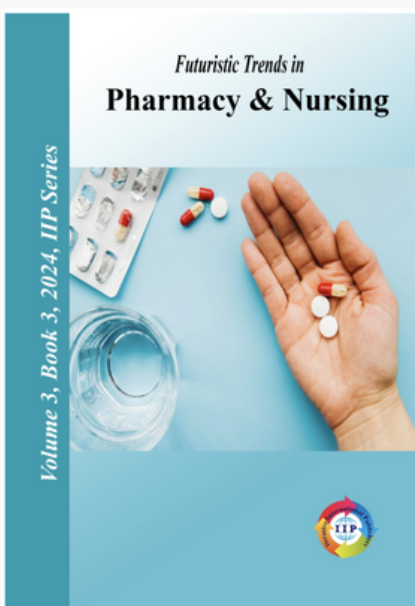
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