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YASH INSTITUTE OF PHARMACY

AURANGABAD (CHHATRAPATI SAMBHAJI NAGAR)

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DTE code : PH2153


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2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

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Principal
Yash Institute of Pharmacy
Chhatrapati Sambhajnagar

Yash Institute of Pharmacy, Chh. Sambhajinagar

Teacher's Name: Dr. Vandana Patil
Semester/ Class: VII sem.

Advanced Learners
Subject: Novel Drug Delivery System
Academic Year: 2023-2024

Sr. No.	Roll No.	Name of Student	Activity/Event 1 (5)		Activity/Event 2 (5)		Activity/Event 3 (5)		Interaction (5)	Total (20)	Total (%)	Remarks
			Assignments	Seminars	Quiz	Quiz						
1	1	BAHIRAT DNYANESHWAR MANIK	5	5	5	5	4	19	95	Very Good		
2	6	CHATE VAISHNAVI VAJNATH	5	5	5	5	5	20	100	Excellent		
3	17	GHODESWAR PRACHI ANIL	5	5	5	5	5	20	100	Excellent		
4	29	KATHAR ROHIT DIGAMBAR	5	5	5	5	5	20	100	Excellent		
5	38	MORE BHAGYASHRI SHIVAJI	5	5	5	4	5	19	95	Very Good		
6	51	ROMAN AKSHAY MADHUKAR	5	5	5	5	5	20	100	Excellent		
7	61	SHINDE JANA GAJANAN	5	5	5	5	5	20	100	Excellent		
8												
9												
10												
11												
12												
13												
14												
15												

(Signature)

Subject In Charge

(Signature)

Principal



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Yash Institute of Pharmacy, Chh. Sambhajinagar
Advanced Learners

Teacher's Name: Ms. S. T. Shaikh
Semester/ Class: V Sem III Year

Subject: Formulative Pharmacy
Academic Year: 2023-24

Sr. No.	Roll No.	Name of Student	Activity/E vent 1 (4)		Activity/E vent 2 (4)		Activity/E vent 3 (4)		Interaction (4)	Total (20)	Total (%)	Remarks
			PPT presentation	Dodging MCQa	Act as student mentor	Dodging MCQa						
1	6	Anuja Chavan	5	5	5	5	5	5	20	100	Gave detailed presentation with	
2	16	Ratnanjali Gavale	5	5	5	5	5	5	20	100	act as student mentor	
3	46	Sanjay Nishad	5	5	5	5	5	5	20	100	act as student mentor	
4	62	Rahul Sharma	5	5	5	5	5	5	20	100	Gave maximum correct answers on dodging	
5												
6												

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**Yash Institute of Pharmacy, Chh. Sambhajinagar
Advanced Learners**

Teacher's Name: Ms. P.A. Karpe
Semester/ Class: II sem 1st year

Subject: Computer applications in pharmacy
Academic Year: 2023-24

Sr. No.	Roll No.	Name of Student	Activity/Event			Interaction (5)	Total (20)	Total (%)	Remarks
			Activity/Event 1 (5)	Activity/Event 2 (5)	Activity/Event 3 (5)				
1	2	Bankar Sneha	5	5	5	5	20	100	Good communication Skills
2	21	Nikita Karpe	5	5	5	5	20	100	Quick Comprehension
3	35	Phonawane Sejal	5	5	5	5	20	100	Quick Learner
5	55	Wagh Shrawani	5	5	5	5	20	100	Critical thinking


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Yash Institute of Pharmacy, Chh. Sambhajinagar

Slow Learners

Teacher's Name: Dr. Vandana Patil
Semester/ Class: VII sem.

Subject: Novel Drug Delivery System
Academic Year: 2023-2024

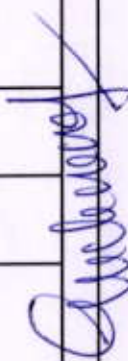
Sr. No.	Roll No.	Name of Student	Extra session for problem solving / revision with Date					Attendance (2)	Activity 1 (2)	Activity 2 (2)	Activity 3 (2)	Interaction (2)	Total (10)	Total (%)	Remarks
			08-11-2023	09-11-2023	21-11-2023	22-11-2023	23-11-2023								
1	8	CHAVAN SAKSHI PRATAPSING	1	2	3	4	5	2	1	2	1	8	80	Need improvement	
2	32	KHANDARE POOJA	1	2	3	3	5	2	2	2	2	10	100	Good	
3	37	MORE AVAN SURESH	1	2	3	4	5	2	1	2	1	8	80	Need improvement	
4	43	PARASKAR VEDANT ABHAY	1	2	3	4	5	2	2	2	2	10	100	Good	
5	60	SHENDE TANMAY PRABHAT	1	2	3	4	5	2	1	2	1	7	70	Need improvement	
6	61	WAGH DNYANESHWARI RAMDAS	1	2	3	4	5	2	2	2	2	10	100	Good	
Topic Covered			Syllabus Re-orientation	Formulation methods of microencapsulation	Liposomes and niosomes Formulation Methods	ocular formulations and oculars	Intrauterine Drug Delivery Systems	Assignment	quiz	quiz	quiz				
Teacher's sign			 Principal Yash Institute of Pharmacy Chhatrapati Sambhajinagar												



Yash Institute of Pharmacy, Chh. Sambhajinagar
Slow Learners

Teacher's Name: Ms. S. T. Shaikh
Semester/ Class: V Sem III Year

Subject: Formulative Pharmacy
Academic Year: 2023-24

Sr. No.	Roll No.	Name of Student	Extra session for problem solving / revision with Date					Attendance (2)	Activity 1 (2)	Activity 2 (2)	Activity 3 (2)	Interaction (2)	Total (10)	Total (%)	Remarks
			08/09/2023	09-Sep	11-Sep	12-Sep	13-Sep								
1	8	Sonali Dahale	1	2	3	4	5	2	2	2	2	10	100	Good	
2	15	Vishal Gaud	1	2	3	4	5	2	2	2	2	10	100	ok	
3	22	Mangesh Holambe	1	2	3	4	5	2	2	2	2	10	100	Ok	
4	27	Vaishnavi Jadhav	1	2	3	4	5	2	2	2	2	10	100	Ok	
5	34	Rupali Kasbe	1	2	3	4	5	2	2	2	2	10	100	Ok	
6	35	Saurav Khanke	1	2	3	4	5	2	2	2	2	10	100	Ok	
7	42	J Jay More	1	2	3	4	5	2	2	2	2	10	100	Ok	
8	51	Rohit Patil	1	2	3	4	5	2	2	2	2	10	100	Ok	
9	64	Nilay Shinde	1	2	3	4	5	2	2	2	2	10	100	Ok	
10	69	Aditya Tupe	1	2	3	4	5	2	2	2	2	10	100	Ok	
11															
		Topic Covered	Tablet Unit	Multiple Choice Questions	Short Answer Questions	Doubt Session	Long answer								
		Teacher's sign													



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Yash Institute of Pharmacy, Chh. Sambhajinagar

Teacher's Name: Ms. P.A. KARPE Subject: Computer applications in pharmacy
 Semester/ Class: II SEM 1ST YEAR Academic Year: 2023-24

Sl. No.	Name of Student	Extra session for problem solving / revision with Date										Attendance (2)	Activity 1 (2)	Activity 2 (2)	Activity 3 (2)	Total (%)	Remarks
		27-Mar	03-Apr	05-Apr	10-Apr	12-Apr	12-Apr	13-Apr	13-Apr	19-Apr	19-Apr						
1	Pranjal Chavan	P	P	P	P	P	P	P	P	P	P	2	2	2	2	10	100 OK
2	Yashad Deshmukh	A	P	P	P	P	P	P	P	P	P	2	2	2	2	10	100 OK
4	Nirzar Gabhiye	P	P	A	P	P	P	P	P	P	P	2	2	2	2	10	100 GOOD
6	Sandhya Padole	A	P	P	P	P	P	P	P	P	P	2	2	2	2	10	100 OK
7	Pratik Panchal	P	P	A	P	P	P	P	P	P	P	2	2	2	2	10	100 OK
8	Nitu Prasad	P	A	P	P	P	P	P	P	P	P	2	1	2	2	9	90 GOOD
9	Shravani Sapkal	A	P	P	P	P	P	P	P	P	P	2	2	2	2	10	100 GOOD
10	Mujamil Shaikh	P	A	P	P	P	P	P	P	P	P	2	2	2	2	10	100 OK
11	Anjali Shinde	P	P	A	P	P	P	P	P	P	P	2	2	2	2	10	100 OK
12	Shreenath Surase	A	P	P	P	P	P	P	P	P	P	2	2	2	2	10	100 OK
13	Manmath Yenbure	P	P	A	P	P	P	P	P	P	P	2	2	2	2	10	100 GOOD
Topic Covered		Flow chart										Assignments		Seminar		quizzes	
Teacher's sign																	



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A Mini Review: Nutritional and Pharmacological Importance of *Psidium guajava*

Vandana Patil^{1*}, Ajinkya Dhangare², Sachidanand Angadi³, Suvarna Kale⁴ and Reshma Patil⁵

Yash Institute of Pharmacy, Chhatrapati Sambhajinagar, -431134, India.

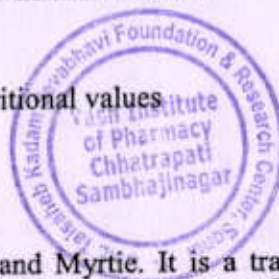
ABSTRACT:

Increasing industrialization has led to many modifications in lifestyle, which give rise to diseases that reduce the quality of life. Scientific studies demonstrate that consumption of parts of plants (fruit, seeds, leaves, roots) can be helpful to prevent risk factors of many diseases. *Psidium guajava* (P.G.) is one of them which is worldwide known for its nutritional and medicinal values. It is popularly known as "Guava". It possesses a wide range of medicinal and traditional uses for other ailments. Parts of *Psidium guajava* plant play a major role in the development of various industrial and pharmaceutical products. The main aim of the review is to highlight chemical components and their pharmacological effects which are present in different parts of *Psidium guajava* plant. It contains phytoconstituents like kaempferol, naringenin, rutin, epicatechin, catechin, gallic acid, isoflavonoids, flavonoids, phenolic compounds. The pulp is rich in ascorbic acid and seed, skin, bark are rich in glycosides, carotenoids. The different extracts of skin, pulp, leaf, seed and fruits have activities to prevent cancer, regulate blood pressure, and treat diarrhea. The medicinal uses are validated by the scientific research work of P.G. The plant has been extensively studied in terms of pharmacological activities of its major components and the results show antifungal, antipyretic, antioxidant, antimicrobial, hypotensive, analgesic & anti-inflammatory effects. The review data supports the investigators and food nutrition for further extensive work.

Keywords : *Psidium guajava*, Guava, Medicinal & Nutritional values

1.0 INTRODUCTION:

Psidium Guajava (P.G.) is part of the family Myrtaceae and Myrtie. It is a traditional medicinal plant and has a wide history of its parts like bark and leaves used as medicinal uses.^[1] It has genera about 133 and 3,800 species of tropical shrubs and grows in all kinds of soils. It is considered as the 4th important fruit in terms of production and area after banana, mango and citrus. The origin of *Psidium guajava* is found in New Mexico and America.^[2] There are different purposes of production of *Psidium guajava* in different countries like Colombia, Mexico and Venezuela use *Psidium guajava* in fresh beverages and candies etc. Brazil is the one of the top producers of *Psidium guajava* for juices, jams, frozen pulps etc.^{[3][4]} In India it is produced in different states like Uttar Pradesh, Bihar, Madhya Pradesh, Maharashtra, Andhra Pradesh, Tamil Nadu, West Bengal, Assam, Orissa, Karnataka, Kerala, Rajasthan and many more states and with many varieties. But the medicinal uses of *Psidium guajava* are common in all countries according to their parts of plant leaves, pulp are used for respiration and gastrointestinal disorders, antispasmodic, anti-inflammatory and cough sedative antidiarrheal management, hypertension, obesity, control of diabetes mellitus, also anticancer where the seeds give antimicrobial, gastrointestinal, antiallergic, carcinogenic pharmacological activities. *Psidium guajava* full of vitamins of which Vitamin C is very powerful in combating against oxidation and free



Reshma Patil
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REVIEW ARTICLE ON BUTTERFLY PEA: ITS ETHANOPHARMACOLOGICAL AND ETHANOMEDICINAL USES.

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ABSTRACT: Herbal medicine has grown over the past decades and gain popularity in developing and developed countries to cure chronic diseases or disorders. *C.pluricaulis*, an evergreen herb called *C.microphyllus Sieb.* and *C.prostratus Forsk.* it is utilized as a conventional folk remedy for a range of illnesses. In this article, we used PubMed, SciFinder, and Google Scholar to conduct electronic searches to find information about *C.pluricaulis*. The plant profile, phytochemistry, neuropharmacological, and toxicological information of *C. pluricaulis* are clarified by this thorough review. Many different in-vitro and in-vivo neuropharmacological effects, including as a boost to memory, anxiolytic, and tranquilizing properties, have been demonstrated by the crude herb and its metabolites, anti-depressants, anti-stress, neurodegenerative, anti-inflammatory, anti-oxidant, analgesic, sedative, anti-convulsant and Alzheimer's disease-reversing effects. Secondary metabolites form *C.pluricaulis* interact with various proteins, neurosynapses, signaling pathways and serotonergic synapse which plays a crucial role in neurotransmission, Alzheimer's disease, long term depression, addictions to alcohol, cognitive disorders, psychological conditions and increasing serotonin concentration in synapses.

KEYWORDS:

Canscora decussate, *Clitoria ternatea*, *Convolvulus pluricaulis*, *Evolvulus alsenoides*, Shankhapushpi.

INTRODUCTION :

Clitoria ternatea commonly called as the butterfly pea of family Fabaceae and sub-family papilionaceae is a perennial leguminous twiner, which originated from the Asian tropical area and later was widely distributed in south and central America, East and West Indies, India and China, where it has become naturalized^[1]. The plant is also called as Aparajit in Hindi, Aparajita in Bengali, and Kokkattan in Tamil of Indian traditional medicine^[2]. It thrives in regions with full sunlight and partial shade, and its seed germination typically takes around 1-2 weeks, with flowering occurring approximately 4 weeks after germination^[15]. Being a leguminous plant its roots form a symbiotic association with soil bacteria known as rhizobium which fixes atmospheric nitrogen into a plant-unstable form (a process called nitrogen-fixation), therefore this plant is used to improve soil quality through the decomposition of nitrogen-rich plant material^[3]. The root part of *C.ternatea* has been used as laxative, purgative, diuretic, inflammation, indigestion, constipation, fever, arthritis, vision problems, anthelmintic^[7]. Preliminary phytochemical screening of *Clitoria ternatea* revealed that the preparation contained tannis, phlebotomine, carbohydrates, anthocyanins, saponins, triterpenoids, phenols, alkaloids, flavonoids, flavonol glycoside, proteins, anthraquinone, cardiac glycosides, volatile oils and steroids^[8]. The Butterfly Pea flowers contain anthocyanins, which are natural antioxidants that slow down the aging process. Prevents skin aging and help the skin. The blue hue of *Clitoria ternatea* flowers are used as an abundance of

IJRAR.ORG**E-ISSN: 2348-1269, P-ISSN: 2349-5138****INTERNATIONAL JOURNAL OF RESEARCH AND
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An International Open Access, Peer-reviewed, Refereed Journal

Ethno-medicinal Values of Amla: Overview

Vandana Patil^{1*}, Vaishnavi Chate, Mahaveer Chordiya, Sachidanand Angadi and Suvarna Kale
Yash Institute of Pharmacy, Chhatrapati Sambhajnagar, -431134, India.

Abstract:

Plants have been a vital part of human progress since ancient times, serving as an exceptional natural medicine source. Researchers from all around the world are concentrating on medical plant research due to the difficulty of creating chemical-based medications, as well as their negative health consequences and escalating costs. India is home to an extensive collection of diversified plant species, of which 8,000 have been identified as having important therapeutic benefits. The therapeutic effects of many plants bioactive chemicals that are commonly employed in the treatment of various human disorders are mentioned in research papers on medicinal plants that have been published in the previous few decades. The objective of this review is to explore various phytoconstituents, pharmacological actions, and traditional uses. Tannins, flavonoids, saponins, terpenoids, ascorbic acids, and many other bioactive compounds are said to be present in *Emblica officinalis*. These compounds have been shown to have a variety of pharmacological activities, including antimicrobial, antioxidant, anti-inflammatory, radio-protective, hepatoprotective, antitussive, immunomodulatory, hypolipidemic and many more. Additionally, it has been stated that this medicinal plant has anti-HIV, anti-cancer, antidiabetic, antidepressant, antiulcerogenic, wound-healing, and other properties. The phytochemical components, pharmacological actions, and traditional use of *Emblica officinalis* are included in the current review. Thus we conferred a comprehensive overview of ethano-medicinal values of Amla to identify the gap between medical research and the current applications. The review data explores the trends and perspectives to the medical investigators and food nutrition for further extensive work.

KEYWORD: Amla, *Emblica officinalis*, pharmacological and ethano-medicinal values.

1.0 INTRODUCTION

Mother Nature has bestowed onto humanity an abundance of medicinal plants that can help establish a life free from illness and sickness. *Phyllanthus emblica* Linn, often known as Indian gooseberry, or Amla, is one of the many commonly used medicinal herbs in Indian traditional medical systems (such as Ayurveda, Unani, and Siddha). (Synonyms. *Emblica officinalis* Garten) is a member of the Euphorbiaceae family. ^[1] The amla tree, a small to medium-sized deciduous tree, is native to Southeast Asia, China, Malaysia, Pakistan, Uzbekistan, India and Sri Lanka. Its thin, light grey bark helps it grow to a height of 8 to 18 meters. It's simple, light green, sub-sessile leaves are closely spaced along the branchlets, giving the appearance of pinnate leaves; its greenish-yellow flowers are accompanied by globose, fleshy, pale-yellow fruits that have six obscure vertical furrows enclosing six trigonous seeds in two seeded, three crustaceous cocci. ^[4]

Synonyms: *Emblica officinalis*, Indian gooseberry, Amla, *Phyllanthus emblica*.



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Over-The-Counter Cold Remedies: Origins And Impact On Different Age Groups

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Abstract:

Introduction: Over-the-counter (OTC) medications are commonly utilized for treating the symptoms of the common cold due to their accessibility and affordability, especially in regions where healthcare access is limited. This study aims to gather data on the usage of OTC medications, specifically focusing on cetirizine, levocetirizine, phenylephrine, paracetamol, and other commonly used remedies for cold relief.

Methods: Data collection involved surveying individuals to ascertain their utilization of OTC medications for treating common cold symptoms. Additionally, therapeutic effects reported in published articles regarding various OTC drugs were analyzed to determine their efficacy in alleviating cold symptoms.

Results: Our analysis revealed widespread use of OTC medications for the common cold. The data obtained from published studies provided insights into the therapeutic effects of various OTC drugs on the body. Through statistical analysis, we evaluated the effectiveness of these medications for cold remedies.

Discussion: The findings of this study shed light on the efficacy of OTC medications for treating the common cold. Furthermore, the study highlights the potential risks associated with overuse of these medications, particularly among different age groups. Awareness regarding appropriate OTC medication usage and its effects across extreme ages is crucial for optimizing healthcare practices.

Conclusion: This study contributes to the understanding of OTC medication usage for cold remedies and emphasizes the importance of responsible usage, especially considering the potential impact on individuals across different age groups. Further research and awareness efforts are warranted to promote safe and effective usage of OTC medications for cold relief.

Keywords: OTC, non-prescription, cetirizine, levocetirizine, common cold.

Introduction:

OTC drugs stand for Over-the-Counter Drugs. OTC drugs are meant to be unprescribed or self-medication drugs. Over-the-counter (OTC) drugs are those drugs that are sold without a prescription by ordinary retail purchase, with no need for a prescription or a license(1). OTC medicines are nonprescription medicines, they are used interchangeably to refer to medicines that can be bought without a prescription. The drugs that come under schedules H and X are prescribed drugs according to the Drugs and Cosmetics Act of 1945, but these drugs are also sold as OTC drugs(1).

In day-to-day life, the use of OTC medicines is increasing continuously. OTC drugs are easily available and easily affordable; that's why the use of OTC medicines has increased in the last few years. Self-medications are the drugs that are obtained by patients for the recovery or treatment of common diseases and the treatment of a wide range of conditions, such as headaches, common colds, coughs, and musculoskeletal pain. These are the drugs that are not prescribed by the physician and are sold out without a prescription. The World Health



COMPREHENSIVE INSIGHTS INTO BREAST CANCER: FROM MOLECULAR PATHWAYS TO PERSONALIZED THERAPIES

Tamoxifen: An Enduring Pillar in Breast Cancer Management - Insights, Efficacy, and Evolving Perspective

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¹B. Pharmacy Student, ²Principal, ³Assistant Professor, ⁴Assistant Professor, ⁵Assistant Professor

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Abstract: Breast cancer, with its diverse subtypes and complex molecular pathways, necessitates tailored treatments targeting receptors like ER α , PR, and HER2. Endocrine therapies, including SERMs and AIs, alongside emerging CDK4/6 inhibitors, demonstrate efficacy in managing ER+ HER2- breast cancers. Understanding ER β 's role, treatment adherence, bone health considerations, and the impact of factors like lymph node status are crucial in optimizing treatment strategies. Precision medicine, genomic profiling, and immunotherapies hold promise in shaping the evolving landscape of breast cancer treatment. Methods: A comprehensive analysis of breast cancer and its impact on various demographics, encompassing global trends, endocrine therapies, prognostic indicators, estrogen's role in cancer development, and the complexities surrounding preventive measures, was conducted. The review includes in-depth insights into hormonal mechanisms, lifestyle influences, and treatment nuances across different populations, encompassing menopausal statuses, genetic predispositions, and psychosocial implications in young breast cancer survivors. Results: Discussions highlight the significance of endocrine status determination, adjuvant endocrine therapy efficacy, and the multifaceted considerations in treatment selection. Factors such as hormonal dynamics, comparative efficacy of AIs vs. Tamoxifen, and individualized approaches based on menopausal status underscore the importance of personalized medicine in breast cancer management. Discussion: The abstracted review delineates the complexities of breast cancer treatment, incorporating biological mechanisms, psychosocial impacts on survivors, global trends, and precision medicine's necessity. It emphasizes the need for targeted interventions, ongoing research, and risk-adapted strategies to optimize outcomes for diverse breast cancer populations.

Keywords - Breast Cancer, Endocrine Therapy, Precision Medicine, Hormonal Dynamics, Global Trends, Young Survivors, Personalized Treatment



Dr. Sachidanand Angadi

Principal

**Yash Institute of Pharmacy
Chhatrapati Sambhaji Nagar**

9. A Review on Impact of Antiviral Agents Administered to Pregnant Women Affected by Zika Virus and a Study on Microcephaly

Varad Pande

Purva Daroli

Rahul Sharma

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Abstract

Current scenario in healthcare system is going to be very important to study as there is an increase in cases of viral infection amongst people in the world. Viruses not only affects to the human body but also may cause serious infections in plants and animals. In this review, we have discussed particularly about the Zika virus which is spread through bite of *Aedes aegypti* carrier mosquito. However, Zika virus (ZIKV) infection is not fatal but can cause serious health issues including the microcephaly in newborn infants. Microcephaly is a condition in which side of head of infants is reduced and serious brain related issues may be arise. Simultaneously, the impact of administration of antiviral medications to pregnant women affected by the Zika virus infection has also been discussed in this review.

Keywords: Zika virus, microcephaly, antiviral agents, *Aedes aegypti*.

1.0. Introduction

1.1. How ZIKV was discovered?

Previously Zika virus or ZIKV was spread up to the African and Asian region. Then it spreads over the Brazil at the middle of 2015. There is no specific vaccine or drug has been yet discovered for the treatment of ZIKV infection [1].

ZIKV was first found and isolated in 1947 from forests of Uganda in febrile rhesus macaque monkey. In 1954, first 3 human cases was found in Nigeria. ZIKV is a single stranded RNA belongs to family Flaviviridae [1,3,7].

1.2. Isolation process of ZIKV

It is an arthropod- borne virus or called as Arbovirus which is generally transmitted by the bite of an infected mosquito called *Aedes aegypti*. It was isolated from a Rhesus monkey. The monkey number 766 was preserved at the temperature of 39.7°C. His blood sample was isolated



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“ENHANCING PATIENT SAFETY THROUGH PHARMACOVIGILANCE: EFFECTIVE MONITORING AND REPORTING OF ADVERSE DRUG REACTIONS”

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1B.Pharmacy Student, 2Principal, 3Assistant Professor, 4Assistant Professor

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2Yash Institute of Pharmacy, Aurangabad,

3Yash Institute of Pharmacy, Aurangabad,

4Yash Institute of Pharmacy, Aurangabad

ABSTRACT

Introduction: Adverse drug reactions (ADRs) represent a significant concern for patient safety and necessitate robust monitoring and reporting mechanisms. This systematic literature review delves into the landscape of ADR reporting, with a specific focus on leveraging the electronic health record (EHR) as a surveillance tool. Despite existing guidelines, variability in reporting standards persists among healthcare facilities worldwide.

Methods: A comprehensive search encompassing PubMed and the Cochrane Database of Systematic Reviews was conducted, targeting original articles and reports from reputable organizations. The review explores challenges encountered in ADR reporting, including under-reporting rates and interinstitutional variability. Potential strategies for improvement, such as direct reporting by consumers and enhanced healthcare provider education, are examined.

Results: Despite concerted efforts to promote ADR reporting, persistent barriers remain, including inadequate knowledge among healthcare professionals and logistical challenges in establishing robust reporting systems. Direct consumer reporting initiatives have shown promise in certain countries but warrant further investigation. Additionally, while the EHR presents promising opportunities for ADR monitoring, issues such as lack of standardization and alert fatigue hinder its effectiveness in practice.

Discussion: Addressing barriers to ADR reporting is imperative to strengthen pharmacovigilance systems and uphold patient safety standards. The review underscores the importance of standardized reporting practices,



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MAXIMIZING PATIENT OUTCOMES: ASSESSING THE IMPLEMENTATION AND IMPACT OF MEDICATION THERAPY MANAGEMENT (MTM) SERVICES

Mr. Nilay Shinde, Dr.Sachidanand S. Angadi, Dr.Gajanan Vaishnav, Dr.Abhay Joshi, Mr.Raman Naiknaware, Dr.Rohit Chavhan,
Department of Pharmacology
Yash Institute of Pharmacy,
Chhatrapati Sambhaji Nagar

Abstract: Background: Medication Therapy Management (MTM) has emerged as a critical component of patient-centered care, aiming to optimize medication regimens, enhance therapeutic outcomes, and improve overall health outcomes. This review explores two innovative models of MTM delivery: clinic-embedded pharmacist programs and telephonic MTM services. These models represent novel strategies to overcome barriers to patient access, intervention success rates, and administrative efficiency, ultimately enhancing patient care and improving health outcomes. Methods: A comprehensive review of literature was conducted to examine the key features, outcomes, and implications of clinic-embedded pharmacist programs and telephonic MTM services. Empirical evidence, case studies, and program evaluations were synthesized to evaluate the effectiveness of these models in improving medication adherence, optimizing therapy outcomes, and reducing healthcare utilization. Factors influencing the adoption and integration of these models into clinical practice were also explored. Results: Clinic-embedded pharmacist programs involve the integration of pharmacists into primary care settings, facilitating close collaboration with healthcare providers and direct patient care delivery. These programs have demonstrated success in identifying and addressing medication-related issues, improving medication adherence, and enhancing patient education and self-management skills. Telephonic MTM services utilize technology to deliver MTM interventions remotely, offering flexibility and convenience for patients. These services have been effective in reaching and engaging patients, conducting comprehensive medication reviews, and delivering targeted interventions to address medication-related issues. Discussion: Innovative MTM delivery models, such as clinic-embedded pharmacist programs and telephonic MTM services, demonstrate promising outcomes in terms of patient engagement, medication optimization, and healthcare utilization. By leveraging technology and interdisciplinary collaboration, these programs overcome traditional barriers to MTM delivery and enhance the efficiency and effectiveness of patient care. Moving forward, healthcare organizations and policymakers should continue to invest in these innovative models to improve the quality, accessibility, and affordability of medication management services. Conclusion: Clinic-embedded pharmacist programs and telephonic MTM services represent innovative approaches to delivering comprehensive medication management services. These models have shown promise in improving medication adherence, optimizing therapy outcomes, and reducing healthcare utilization. By promoting pharmacist-led interventions and leveraging technology-enabled platforms, healthcare providers can enhance the quality and accessibility of medication management services, ultimately improving patient outcomes and advancing healthcare delivery.

Keywords: Medication Therapy Management, Pharmacist-led interventions, Clinic-embedded programs, Telephonic MTM services, Patient-centered care, Healthcare innovation, Interdisciplinary collaboration.



"NAVIGATING PRECISION HEALTHCARE: THE INTERSECTION OF PHARMACOGENOMICS AND PERSONALIZED MEDICINE IN UNRAVELING THE GENETIC TAPESTRY"

1Mr. Sanjay Nishad, 2Mr. Rahul Sharma, 3Dr.Sachidanand S. Angadi, 4Dr.Rohit Chavhan

1B.Pharmacy Student, 2B.Pharmacy Student, 3Principal, 4Assistant Professor

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4Yash Institute of Pharmacy, Aurangabad

ABSTRACT

Background: Pharmacogenomics, the study of how genetic variations influence an individual's response to pharmacological treatments, has garnered significant attention for its potential to personalize medicine and optimize treatment outcomes. While pharmacogenetics focuses on predicting drug response based on genetic traits, pharmacogenomics takes a broader approach, encompassing the study of genetic variations across multiple genes or entire genomes. This review examines the evolution of pharmacogenomics and its applications in clinical practice, exploring advancements in sequencing technologies, customized pharmacogenomic panels, and the clinical implementation of pharmacogenomics. Additionally, it discusses the challenges and opportunities in translating pharmacogenomic research into routine clinical care. **Methods:** A comprehensive literature review was conducted to identify key developments and trends in pharmacogenomics research and clinical practice. PubMed, Google Scholar, and relevant scientific databases were searched using keywords such as "pharmacogenomics," "personalized medicine," "clinical implementation," and "genomic testing." Studies, reviews, and guidelines published in peer-reviewed journals were included, focusing on advancements in sequencing technologies, the development of customized pharmacogenomic panels, and strategies for integrating pharmacogenomic testing into routine clinical workflows. **Results:** Pharmacogenomics offers valuable insights into predicting drug response, optimizing therapy, and minimizing adverse drug reactions. Studies have identified actionable germline and somatic biomarkers associated with drug efficacy and toxicity. However, challenges remain in integrating pharmacogenomic testing into clinical workflows, including regulatory hurdles, infrastructure limitations, and the need for enhanced genomic literacy among healthcare professionals. Despite these challenges, pharmacogenomics holds immense promise for personalized medicine. By leveraging genetic insights, clinicians can tailor pharmacotherapy to individual patients, improving treatment efficacy and safety. **Conclusion:** Continued research and collaboration are essential to overcome barriers and realize the full potential of pharmacogenomics in optimizing patient care. Despite challenges, pharmacogenomics holds



PHYTOCHEMICAL, PHARMACOLOGICAL AND NUTRITIONAL VALUES OF MANGIFERA INDICA: AN OVERVIEW

Vandana Patil^{1*}, Prajyot Chaudhari², Sakshi Chavan³, Sachidanand Angadi⁴ and
Suwarna Kale⁵

Yash Institute of Pharmacy, Chhatrapati Sambhajinagar, -431134, India.

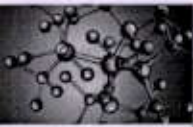
ABSTRACT:

Naturally occurring products are an important source of new compounds that lead to drugs in all major diseases. *Mangifera indica* (M.I.) commonly known as mango belongs to the family *Anacardiaceae* & genus *Mangifera*, which consists of about 30 species of tropical fruiting trees. *Mangifera indica* consists of active substances with high therapeutic potential. The ethnomedicinal parts of the plant viz roots, stem, bark, leaves, flowers, and fruits are widely used to treat various diseases and disorders. It has a wide range of medicinal uses, including anti-inflammatory anti-hyperglycemic, hepatoprotective, antibacterial, anticancer, immunomodulatory, antiulcer, and antioxidant, properties. The objective of the overview is to highlight the information on the plant's botanical description, pharmacological actions, and its traditional uses. The authors collect research and review articles for findings of other additional potential and therapeutic effects. The current overview emphasizes the phytochemical investigation, pharmacological actions, and nutritional value of *Mangifera indica*. By using this overview, the researcher finds future scope related to phytoconstituents that are responsible for therapeutic activity the overview.

Keywords: *Mangifera indica*, Mangiferin, Mango, Pharmacological activity

1.0 INTRODUCTION:

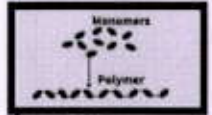
India has various systems of health like Ayurveda, Unani, Homeopathy, and Naturopathy that are mentioned even in the Vedas and other scriptures. These systems existed together with allopathic, containing vast, safe, and ongoing usage of multiple herbal drugs.^[1] It is one of the Ayurvedic remedies for relieving acidity and digestion caused by pitta (heat). Mangiferin has potent antioxidant, antilipid peroxidation, immunomodulating, cardiogenic, hypotension, wound-healing, antidegenerative, and anti diabetic effects. Various parts of plants are used as a dentifrice, antiseptic, astringent, diaphoretic, stomachic, vermifuge, tonic, laxative, and diuretic and to treat diarrhea, dysentery, anemia, asthma, bronchitis, cough, hypertension, insomnia, rheumatism, toothache, leucorrhoea, hemorrhage, and piles. All parts are used to treat abscesses, broken horn, rabid dog or jackel bites, tumors, snakebites, datura poisoning, heat stroke, miscarriage, anthrax, blisters, mouth wounds, tympanitis, colic, constipation, glossitis, indigestion, bacillosis, bloody dysentery, liver and kidney disorder, excessive urination, tetanus, and respiratory disorder.^[2] A wide range of phytochemicals have recently been observed in *Mangifera indica* such as mangiferin, catechins, gallic acid, protocatechuic acid, propyl and methyl gallate, anthocyanins, quercetin, rhamnetin, kaempferol and ellagic acids.^[3] As a result, *Mangifera indica* (M.I.) exhibits various pharmacological potentials, such as



POLYMER
Vaishnavi Chate
Roll no : 06



DEFINITION :



♦ Polymer are very large molecules when hundreds of monomer joined together to form long chain.

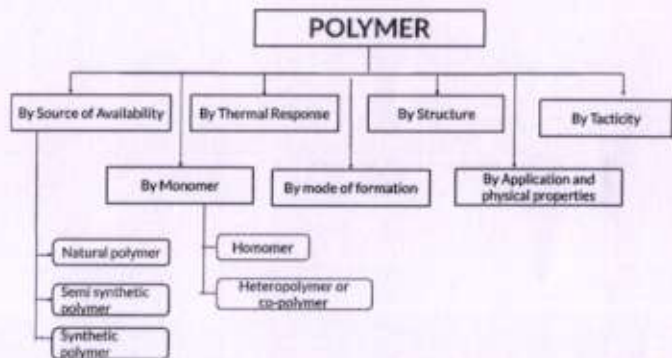
♦ The word 'POLYMER' comes from the Greek words poly (means many) and meros (means parts).

♦ A polymer is a large molecule or a macromolecule which essentially is a combination of many subunits.

CLASSIFICATION :

Polymers cannot be classified under one category because of their complex structures, different behaviours, and vast applications.

- 1. By Source of Availability.
- 2. By Monomer.
- 3. By Thermal response.
- 4. By Mode of formation.
- 5. By Structure.
- 6. By Application and Physical properties.
- 7. By Tacticity.



1. By Source of Availability :

Natural Polymers: They occur naturally and are found in plants and animals.

For example; proteins, starch, cellulose, and rubber. To add up, we also have biodegradable polymers which are called biopolymers.

Semi-synthetic Polymers: They are derived from naturally occurring polymers and undergo further chemical modification.

For example; cellulose nitrate, cellulose acetate.

Synthetic Polymers: These are man-made polymers. Plastic is the most common and widely used synthetic polymer. It is used in industries and various dairy products.

For example; nylon-6, 6, polyether etc.

2. By Monomer :

Homomer: In this type, a single type of monomer unit is present. For example, Polyethene .

Heteropolymer or co-polymer: It consists of different type of monomer units. For example, nylon -6, 6.



(Signature)
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CHARACTERISTICS OF IDEAL POLYMER

- Low density
- Low coefficient of friction
- Good corrosion resistance
- Good mould ability
- Excellent surface finish can be obtained
- Can be produced with close dimensional tolerances
- Economical
- Poor tensile strength
- Low mechanical properties
- Poor temperature resistance
- Can be produced transparent or in different colours

Advantages

- Localized delivery of drug
- Sustained delivery of drug
- Stabilization of drug
- Decrease in dosing frequency
- Reduce side effects
- Improved patient compliance

Disadvantages

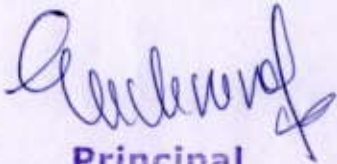
Presence of substances that may be issued in the body [monomers (toxic), catalysts, additives] after Degradation

A "burst effect" or high initial drug release soon after administration is typical of most system.

APPLICATION

- Polymer system for gene therapy.
- Biodegradable polymer for ocular tissue engineering, vascular, orthopedic, skin adhesive & surgical glues.
- Bio degradable drug system for therapeutic agents such as anti tumor, antipsychotic agent, anti-inflammatory agent.
- Polymeric materials are used in and on soil to improve aeration, and promote plant growth and health.
- Many biomaterials, especially heart valve replacements and blood vessels, are made of polymers like Dacron, Teflon and polyurethane.




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MCQ's on Mucosal Drug Delivery System

-By Vashnavi Uddhavrao Shinde
(Roll No:64)

1. Which of the following route can not include in Mucosal drug delivery systems.

- A) Buccal delivery system
- B) Ocular delivery system
- C) Rectal delivery system
- D) Parenteral delivery system

Ans: D) Parenteral Delivery System

Explanation:

Mucosal drug delivery systems include following route of administrations:

- Buccal delivery system
- Vaginal delivery system
- Rectal delivery system
- Nasal delivery system
- Rectal delivery system
- Oral drug delivery system.

2. Mucosal drug delivery system associated with the

- A) Sublingual delivery
- B) Buccal delivery
- C) Gingival delivery
- D) Nasal delivery

Ans: C) Gingival Delivery System

Explanation:

Parts of the oral cavity for drug delivery:

- 1. The floor of mouth (sublingual)
- 2. The buccal mucosa (cheeks)
- 3. The gums (gingiva)

3. The proportion of Free proteins present in mucosa is

- A) 0.5-5%
- B) 10%
- C) 0.5-1%
- D) 0.1-0.5%

Ans: C) 0.5-1%

Explanation:

Table 2.2: Composition of Mucous Membrane

Sr. No.	Composition	% Amount
1.	Water	95
2.	Glycoprotein and Lipids	0.5-5.0
3.	Mineral salts	1
4.	Free proteins	0.5-1.0

Vashnavi Shinde
Principal

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8. Advantages of the mucosal drug delivery system includes;

- A) Excellent accessibility
- B) Only drug with small dose requirement can be administered.
- C) Drugs which are unstable at buccal pH cannot be administered by this route.
- D) Relatively small absorptive surface area (0.01 sq m Vs 100 sq m for GIT)

Ans: A) Excellent accessibility

Explanation:

Advantages of the mucosal drug delivery system.

- Targeting & localization of the dosage form at a specific site.
- High drug flux at the absorbing tissue.
- Excellent accessibility.
- Low enzymatic activity & avoid of first-pass metabolism.
- Prolongation of residence time.

9. Which of the following is not the theories of mucoadhesion

- A) Wetting theory
- B) Fracture theory
- C) Adsorption theory
- D) Diffusion theory

Ans: C) Adsorption theory

Explanation:
THEORIES OF MUCOADHESION;

- 1. Electronic theory
- 2. Wetting theory
- 3. Adsorption theory
- 4. Fracture theory
- 5. Diffusion theory

10. Which of the following can be used as permeation enhancer in mucosal drug delivery system

- A) Methyl paraben
- B) Sodium Chloride
- C) Calcium Chloride
- D) Sodium taurocholate

Ans: D) Sodium taurocholate

Explanation:

Categories of permeation enhancer :

a) Bile salts and there steroidal detergents >
Sodium glycolate, sodium taurocholate, sapiנים, etc.

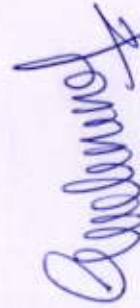
b) Surfactants >

- i. Nonionic - Polyoxylate 80, sucrose ester, etc.
- ii. Cationic - Cetyltrimethyl ammonium bromide.
- iii. Anionic - Sodium laurylsulfate, fatty acids.

c) Other enhancers >

Azone, alcohols, chelating agents, Sodium EDTA, sulfadiazole, Benzalkonium chloride, Dextran sulfate, Propylene glycol, Menthol, Phosphatidylcholine, Polysorbate 80 etc.

Thank you!



Principal
Yash Institute of Pharmacy
Chhatrapati Sambhajinagar





Smt. Taisaheb Kadam Sevabhavi Foundation & Research Center, Sonai's

YASH INSTITUTE OF PHARMACY

AURANGABAD (CHHATRAPATI SAMBHAJI NAGAR)

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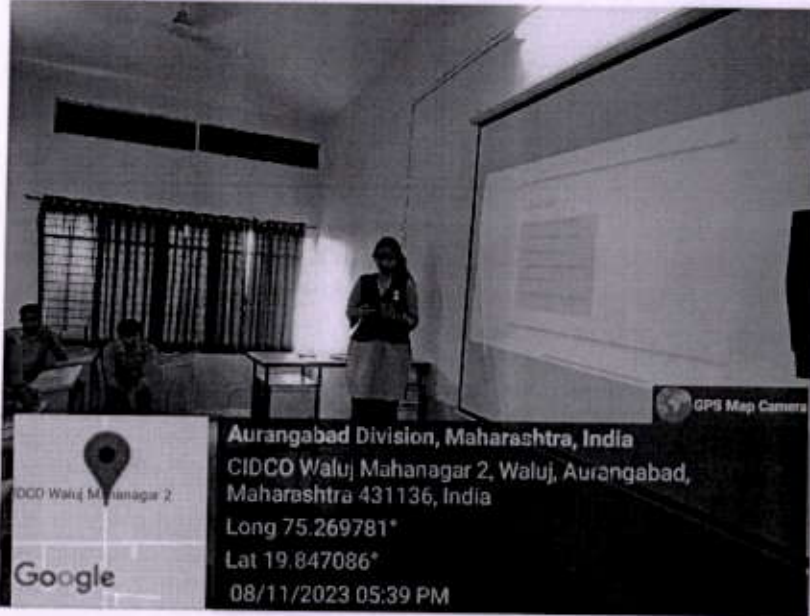
Permanently affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad



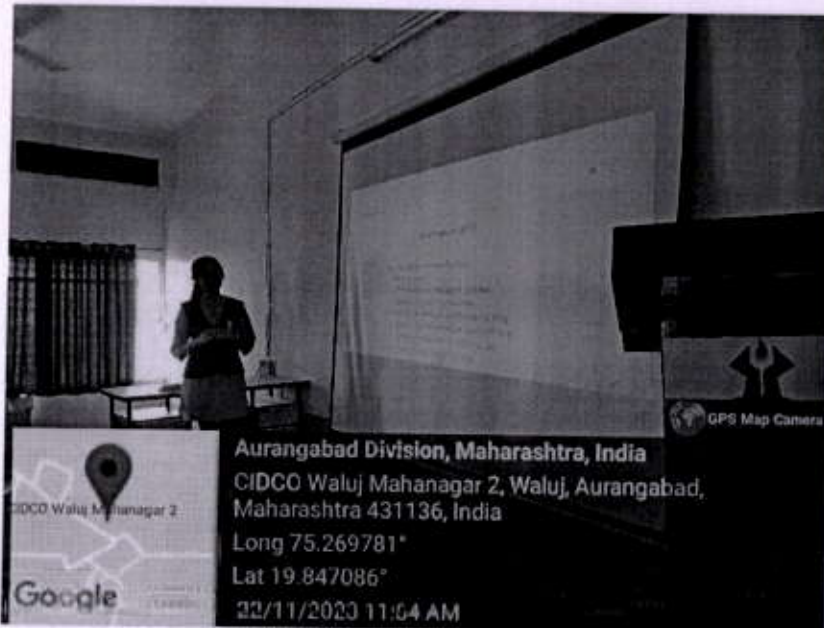
DTE code : PH2153

Seminars delivered by VII Semester Students

Course : Novel Drug Delivery System



Seminar delivered by Ms. Vaishnavi Chate



Seminar delivered by Ms. Prachi Ghodeswar

Prachi Ghodeswar
 Principal

Yash Institute of Pharmacy
 Chhatrapati Sambhajnagar



Smt. Taisaheb Kadam Sevabhavi Foundation & Research Center, Sonai's

YASH INSTITUTE OF PHARMACY

AURANGABAD (CHHATRAPATI SAMBHAJI NAGAR)

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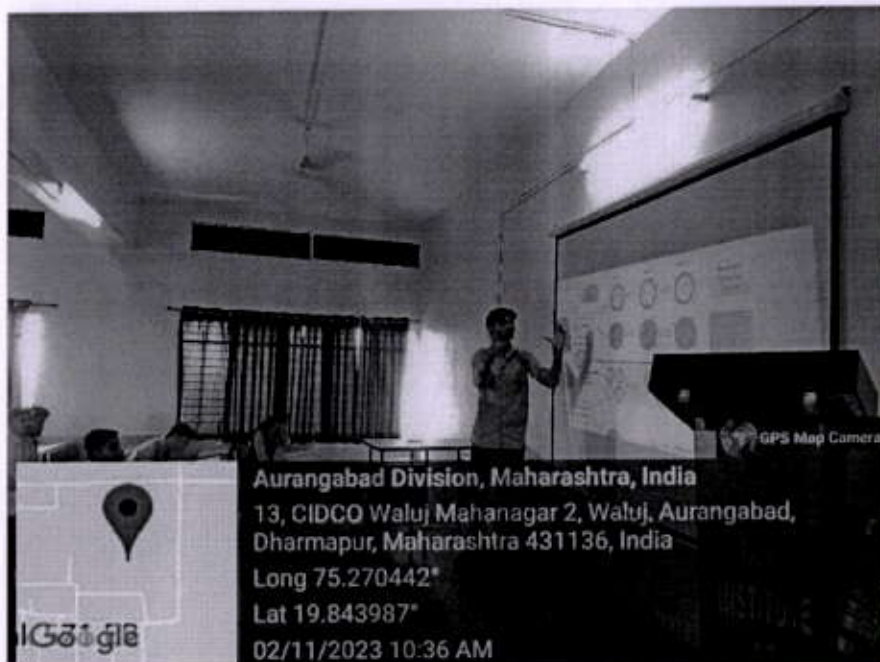
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DTE code : PH2153



Seminar delivered by Mr. Dnyaneshwar Bairat



Seminar delivered by Ms. Bhagyashree More

Bhagyashree More

Principal

Yash Institute of Pharmacy
Chhatrapati Sambhajinagar



आयुर्विज्ञान में राष्ट्रीय परीक्षा बोर्ड
(स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार के अधीन एक स्वायत्त निकाय)
NATIONAL BOARD OF EXAMINATIONS IN MEDICAL SCIENCES
(Autonomous Body under Ministry of Health and Family Welfare, Govt. of India)
महात्मा गांधी मार्ग (रिंग रोड), अंसारी नगर, नई दिल्ली - 110029
Mahatma Gandhi Marg (Ring Road), Ansari Nagar, New Delhi -110029



इसके द्वारा प्रदान की गई जानकारी



**SCORECARD OF
GRADUATE PHARMACY APTITUDE TEST (GPAT)-2024
(WITH CATEGORY-WISE CUT-OFF PERCENTILE)**



Important Instruction

1. इस स्कोरकार्ड का उद्देश्य GPAT-2024 परीक्षा में उपस्थित होने वाले उम्मीदवारों को परसेंटाइल और परिणाम प्रदान करना है। / This scorecard is intended to provide percentile and result to the candidate who have appeared in GPAT-2024 exam.
2. वैधता: जीपीएटी-2024 के स्कोर की वैधता तीन वर्षों के लिए होगी। / **Validity:** The validity of the score of GPAT-2024 shall be for three years.
3. जीपीएटी-2024 रैंक: यह जीपीएटी-2024 में उपस्थित सभी उम्मीदवारों के बीच उम्मीदवार की समग्र योग्यता स्थिति है। जीपीएटी-2024 में समान अंक प्राप्त करने वाले दो या दो से अधिक उम्मीदवारों के मामले में, ऐसे उम्मीदवारों की परस्पर योग्यता जीपीएटी-2024 के सूचना बुलेटिन के पैरा 10.7 के अनुसार निर्धारित की गई है। / **GPAT-2024 Rank:** This is the overall merit position of the candidate amongst all the candidates who have appeared in GPAT-2024. In case of two or more candidates obtaining equal score in GPAT-2024, the inter-se-merit of such candidates has been determined as per para 10.7 of the Information Bulletin of GPAT-2024.
4. स्कोरकार्ड / **Scorecard:**

I.	Application ID:	GP24009541		
II.	Roll Number:	2412414574		
III.	Name of the candidate**:	KATHAR ROHIT DIGAMBAR		
IV.	Father's Name**:	DIGAMBAR		
V.	Mother's name**:	SAVITA		
VI.	Date of Birth (dd/mm/yyyy)**:	18/03/2001		
VII.	Category**:	OBC	PwBD Status**:	NO
			EWS status**:	
VIII.	GPAT 2024 Rank:	270	Percentile	99.31369
IX.	Result:	QUALIFIED		
X.	Remarks:	--		
XI.	Category-wise cut-off percentile for GPAT-2024	Category	Cut-off Percentile	
		Unreserved (UR)	96.15414	
		Unreserved-PwBD	55.15620	
		General-EWS	90.7069	
		General-EWS-PwBD	46.32063	
		Other Backward Class (OBC-NCL)	90.09176	
		OBC-PwBD	49.70896	
		Scheduled Caste-(SC)	75.4353	
		SC-PwBD	45.53011	
		Scheduled Tribe (ST)	54.17503	
		ST-PwBD	52.27117	

RESULT DATE: 29/07/2024

**जीपीएटी-2024 के लिए ऑनलाइन आवेदन पत्र जमा करने के दौरान उम्मीदवार द्वारा दी गई जानकारी के अनुसार, काउंसिलिंग/प्रवेश अधिकारियों को इसे सत्यापित करने की सलाह दी जाती है। / As per information provided by the candidate during online submission of application form for GPAT-2024, Counseling /admitting authorities are advised to verify the same.



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Chhatrapati Sambhajanagar

Principal
Yash Institute of Pharmacy
Chhatrapati Sambhajanagar



आयुर्विज्ञान में राष्ट्रीय परीक्षा बोर्ड

(स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार के अधीन एक स्वायत्त निकाय)
NATIONAL BOARD OF EXAMINATIONS IN MEDICAL SCIENCES
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महात्मा गांधी मार्ग (रिंग रोड), अंसारी नगर, नई दिल्ली - 110029
Mahatma Gandhi Marg (Ring Road), Ansari Nagar, New Delhi -110029

GPAT-2024



ग्रेजुएट फार्मसी एप्टीट्यूड टेस्ट (जीपीएटी) 2024 का स्कोरकार्ड SCORECARD OF GRADUATE PHARMACY APTITUDE TEST (GPAT) 2024



महत्वपूर्ण अनुदेश Important Instruction

- इस स्कोरकार्ड का उद्देश्य जीपीएटी-2024 परीक्षा में उपस्थित होने वाले उम्मीदवारों को स्कोर और जीपीएटी-2024 रैंक प्रदान करना है। / This scorecard is intended to provide score and GPAT-2024 Rank to the candidate who have appeared in GPAT-2024 exam.
- वैधता:** जीपीएटी-2024 के स्कोर की वैधता तीन वर्षों के लिए होगी। / **Validity:** The validity of the score of GPAT-2024 shall be for three years.
- जीपीएटी-2024 रैंक:** यह जीपीएटी-2024 में उपस्थित सभी उम्मीदवारों के बीच उम्मीदवार की समग्र योग्यता स्थिति है। जीपीएटी-2024 में समान अंक प्राप्त करने वाले दो या दो से अधिक उम्मीदवारों के मामले में, ऐसे उम्मीदवारों की परस्पर योग्यता जीपीएटी-2024 के सूचना बुलेटिन के पैरा 10.7 के अनुसार निर्धारित की गई है। / **GPAT-2024 Rank:** This is the overall merit position of the candidate amongst all the candidates who have appeared in GPAT-2024. In case of two or more candidates obtaining equal score in GPAT-2024, the inter-se-merit of such candidates has been determined as per para 10.7 of the Information Bulletin of GPAT-2024.
- स्कोरकार्ड / Scorecard:**

I.	Application ID:	GP24036686		
II.	Roll Number:	2412420951		
III.	Name of the candidate**:	ROHAN SHIVAJI DHEPE		
IV.	Father's Name**:	SHIVAJI		
V.	Mother's name**:	CHAYYA		
VI.	Date of Birth (dd/mm/yyyy)**:	22/08/1999		
VII.	Category**:	GENERAL	PwBD Status: NO	EWS Status: NO
VIII.	Total Correct Responses:	70	Total Incorrect Responses:	43
IX.	Score (out of 500):	237		
X.	GPAT 2024 Rank:	1928		
XI.	Remarks:			

** जीपीएटी-2024 के लिए ऑनलाइन आवेदन पत्र जमा करने के दौरान उम्मीदवार द्वारा दी गई जानकारी के अनुसार, काउंसलिंग/प्रवेश अधिकारियों को इसे सत्यापित करने की सलाह दी जाती है। / As per information provided by the candidate during online submission of application form for GPAT-2024. Counseling / admitting authorities are advised to verify the same.

- यह कंप्यूटर द्वारा तैयार किया गया स्कोरकार्ड है, इसलिए इसमें त्रुटि/त्रुटि का आश्वासन नहीं है। एनबीईएमएस तकनीकी कारणों से होने वाले स्कोरकार्ड में किसी भी त्रुटि के लिए जिम्मेदार नहीं है। / This is a computer generated scorecard and does not require signature. NBEMS disclaims responsibility for any error in the scorecard that may occur due to technical reasons.
- एनबीईएमएस किसी भी ऐसी जिम्मेदारी से इनकार करता है जो उम्मीदवारों को गलत जानकारी के कारण उत्पन्न हो सकती है। / NBEMS disclaims any responsibility that may arise to candidate(s) due to incorrect information provided by the candidate in the application form.
- एम. फार्म और पीएचडी पाठ्यक्रमों में प्रवेश के लिए फार्म सत्यापित और स्वीकार करने के लिए अंतिम/संबद्ध विश्वविद्यालय/संघ/संबद्ध कॉलेज/संस्थाओं द्वारा जीपीएटी-2024 स्कोर स्वीकार किया जाता है। / GPAT-2024 Score is accepted by Pharmacy Council of India (PCI) approved/affiliated University Departments/ Constituent/ Affiliated Colleges/ Institutions for admissions to M. Pharm and PhD courses.
- पीजी पाठ्यक्रमों में प्रवेश राज्य सरकार/ राज्य प्रवेश समिति द्वारा किया जाता है। जीपीएटी-2024 स्कोर का उपयोग/एम. फार्म में प्रवेश के लिए काउंसलिंग आयोजित करने में एनबीईएमएस की कोई भूमिका नहीं है, उम्मीदवारों को वांछित जीपीएटी-2024 भाग लेने वाले संस्थानों में अंश ले आवेदन करना होगा। इसके बाद, प्रत्येक भाग लेने वाला संस्थान अपने प्रासंगिक वेबसाइटों पर जीपीएटी-2024 स्कोरकार्ड का उपयोग करेगा, जिनके अनुसार उम्मीदवार को उस विशेष संस्थान में प्रवेश के लिए अंश ले आवेदन करने के लिए पूरा करना होगा। / Admission to M. Pharm courses are undertaken by the State Government/ State admission committee. NBEMS has no role what so ever in the admission process of M. Pharm/PhD courses utilizing GPAT score/ award of scholarship for M. Pharm Courses. Candidates must apply separately to the desired GPAT-2024 Participating Institutions. Thereafter, each Participating Institute will release their respective cut off GPAT Scores which a candidate should meet to get qualified for admission to that particular Institution.
- उम्मीदवारों को सलाह दी जाती है कि वे जीपीएटी-2024 में भाग लेने वाले प्रत्येक संस्थान की वेबसाइटों पर विवरण उनकी संबंधित वेबसाइटों पर पढ़ें। जीपीएटी-2024 में भाग लेने वाले संस्थान से संस्थान में जीपीएटी स्कोर स्वीकार करेंगे। / Candidates are advised to read the details of the admission process of each Participating Institute of GPAT-2024 on their respective websites. The participating Institutions of GPAT-2024 are the Institutions which will be accepting the GPAT Score.
- जीपीएटी-2024 में शामिल होने से एम. फार्म सीट सुरक्षित करने और/या एम. फार्म पाठ्यक्रम के लिए अंश ले आवेदन करने का कोई स्वैच्छिक अधिकार प्राप्त नहीं होता है। / Admission in GPAT-2024 does not confer any automatic rights to secure a M. Pharm seat and/or award of scholarship for M. Pharm Courses.
- छात्रवृत्ति की काउंसलिंग और वितरण में एनबीईएमएस की कोई भूमिका नहीं है। दस्तावेजों की सत्यापन और उम्मीदवारों की पात्रता निर्धारण काउंसलिंग/प्रवेश अधिकारियों के समय संबंधित प्राधिकारी द्वारा किया जाएगा। / NBEMS has no role in counseling and disbursement of scholarship. Verification of documents and eligibility of candidates shall be done from the time of counseling/admission process by concerned authority.

!! End of scorecard !!



Application No.	230210007241	Roll No.	MR01010020	
Candidate's Name	ROMAN AKSHAY MADHUKAR			
Mother's Name	SAVITA			
Father's Name	MADHUKAR			
Category	Gen-EWS	Person with Benchmark Disability(PwBD)	No	
Gender	Male	Date Of Birth	11/05/2001	
State of Residence	MAHARASHTRA	Nationality	Indian	
406340021A6R3334EC9CC2D586F38DC9				

Score					
Details	NTA Score (In Figures)	All India Rank	Validity of Score		
	91.9937155	4988	Three Years		
NTA Score in Words	Ninety One point Nine Nine Three Seven One Five Five Only				
Result	QUALIFIED				
Category wise Cut-off (NTA Score)					
	Unreserved (UR)	GEN-EWS	Other Backward Class (OBC-NCL)	Scheduled Caste (SC)	Scheduled Tribe (ST)
Cut-off	96.1812235	90.1695242	90.5716216	77.1061859	57.7465692

Result Date :01.07.2023

Sanjay

Director, NTA

Important Instructions

1. The NTA Score of a candidate indicates the percentage of candidates who have scored EQUAL TO OR BELOW (same or lower raw marks) that candidate in that session.
2. The NTA scores of a Candidate have been calculated as follows:
100XNumber of candidates appeared in the 'Session' with raw score EQUAL TO OR LESS than the candidate

Total number of the candidates appeared in the 'Session'

NTA score is not the same as percentage of marks obtained.

3. A National Merit Ranking (All India Rank) has been arrived on the basis of NTA Score.
4. Candidates having same Score shall be listed in a chronological (ascending) order as per their date of birth.
5. Candidates having same score would be given the same Merit, and the Merit number would be increased by the same number i.e. if there are two candidates at Merit 2, Merit 3 would not be awarded to the next candidate but Merit 4 would be given.
6. The admission authorities are advised to use score awarded to the students for allotment of seat in the AICTE approved programs along with the other criteria that may exist as applicable.
7. Candidate's particulars including Category and Person with benchmark Disability(PwBD) have been indicated as mentioned by the candidate in the online application form.
8. Instances of incorrect information provided by the candidates, if detected at any stage, would make the candidate liable for disqualification.
9. The responsibility of verifying the category of the candidate for ascertaining eligibility of admission and award of scholarship if any lies with the admitting institute.



Sanjay
Principal

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Chhatrapati Sambhajinagar

Sanjay
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Yash Institute of Pharmacy
Chhatrapati Sambhajinagar

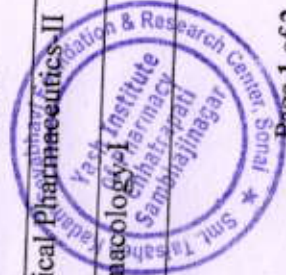
**YASH INSTITUTE OF PHARMACY, AURANGABAD
NOTICE**

Date: 12/04/2024

ADDITIONAL SESSIONAL

2 nd Semester						
Date	Day	Class	Subject	Time	Subject / IC	Sign
22/04/2024	Mon	B.Pharm 2 nd Sem	Human Anatomy and Physiology-II	04:00PM-5.30PM	ASJ	
23/04/2024	Tue	B.Pharm 2 nd Sem	Pharmaceutical Organic Chemistry-I	04:00PM-5.30PM	DMK	<i>[Signature]</i>
24/04/2024	Wed	B.Pharm 2 nd Sem	Biochemistry	04:00PM-5.30PM	DMK	<i>[Signature]</i>
25/04/2024	Thu	B.Pharm 2 nd Sem	Pathophysiology	04:00PM-5.30PM	PSN	<i>[Signature]</i>
26/04/2024	Fri	B.Pharm 2 nd Sem	Environmental sciences	04:00PM-5.30PM	KAP	<i>[Signature]</i>
27/04/2024	Sat	B.Pharm 2 nd Sem	Computer Applications in Pharmacy	04:00PM-5.30PM	KAP	<i>[Signature]</i>

4 th Semester						
Date	Day	Class	Subject	Time	Subject / IC	Sign
22/04/2024	Mon	B.Pharm 4 th Sem	Pharmaceutical Organic Chemistry-III	04:00PM-5.30PM	STS	
23/04/2024	Tue	B.Pharm 4 th Sem	Medicinal Chemistry-I	04:00PM-5.30PM	ASN	<i>[Signature]</i>
24/04/2024	Wed	B.Pharm 4 th Sem	Physical Pharmaceutics-II	04:00PM-5.30PM	RBD	<i>[Signature]</i>
25/04/2024	Thu	B.Pharm 4 th Sem	Pharmacology-I	04:00PM-5.30PM	RBC	<i>[Signature]</i>



[Signature]
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26/04/2024	Fri	B.Pharm 4 th Sem	Pharmacognosy & Phytochemistry -I	04:00PM-5.30PM	YRS	<i>[Signature]</i>
27/04/2024	Sat	B.Pharm 2 nd Sem (Lateral Entry Student Only)	Computer Applications in Pharmacy	04:00PM-5.30PM	KAP	<i>[Signature]</i>
6th Semester						
Date	Day	Class	Subject	Time	Subject / IC	Sign
22/04/2024	Mon	B.Pharm 6 th Sem	Medicinal Chemistry-III	12:00AM-1.30PM	SHK	<i>[Signature]</i>
23/04/2024	Tue	B.Pharm 6 th Sem	Pharmacology-III	12:00AM-1.30PM	RBN	<i>[Signature]</i>
24/04/2024	Wed	B.Pharm 6 th Sem	Herbal Drug Technology	12:00AM-1.30PM	PSN	<i>[Signature]</i>
25/04/2024	Thu	B.Pharm 6 th Sem	Biopharmaceutics and Pharmacokinetics	12:00AM-1.30PM	VPP	<i>[Signature]</i>
26/04/2024	Fri	B.Pharm 6 th Sem	Pharmaceutical Biotechnology	12:00AM-1.30PM	KSP	
27/04/2024	Sat	B.Pharm 6 th Sem	Quality Assurance	12:00AM-1.30PM	KSP	
8th Semester						
Date	Day	Class	Subject	Time	Subject / IC	Sign
22/04/2024	Mon	B.Pharm 8 th Sem	Biostatistics and Research Methodology	12:00AM-1.30PM	GAV	<i>[Signature]</i>
23/04/2024	Tue	B.Pharm 8 th Sem	Social and Preventive Pharmacy	12:00AM-1.30PM	RBC	<i>[Signature]</i>
24/04/2024	Wed	B.Pharm 8 th Sem	Quality Control and Standardizations of Herbs	12:00AM-1.30PM	PSN	<i>[Signature]</i>
25/04/2024	Thu	B.Pharm 8 th Sem	Cosmetic Science	12:00AM-1.30PM	STS	<i>[Signature]</i>

[Signature]
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Exam In-charge
[Signature]

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Time table for 1st Semester Additional Sessional examination

Theory						
Date	Day	Class	Subject	Time	Subject/IC	Sign
04/12/2023	Mon	B.Pharm 1 st Sem	Human Anatomy & Physiology - I	2.30pm to 4.00pm	ASJ	
05/12/2023	Tues	B.Pharm 1 st Sem	Pharmaceutical Analysis-I	2.30pm to 4.00pm	PAK	
06/12/2023	Wed	B.Pharm 1 st Sem	Pharmaceutics - I	2.30pm to 4.00pm	PSN	
07/12/2023	Thurs	B.Pharm 1 st Sem	Pharmaceutical Inorganic Chemistry	2.30pm to 4.00pm	YRS	
08/12/2023	Fri	B.Pharm 1 st Sem	Communication Skill	2.30pm to 4.00pm	KPA	

Time table for 3rd Semester Additional Sessional examination

Theory						
Date	Day	Class	Subject	Time	Subject/IC	Sign
04/12/2023	Mon	B.Pharm 3 rd Sem	Pharmaceutical Organic Chemistry-II	2.30pm to 4.00pm	SHK	
05/12/2023	Tues	B.Pharm 3 rd Sem	Physical Pharmaceutics - I	2.30pm to 4.00pm	RBD	
06/12/2023	Wed	B.Pharm 3 rd Sem	Pharmaceutical Microbiology	2.30pm to 4.00pm	KSP	
07/12/2023	Thurs	B.Pharm 3 rd Sem	Pharmaceutical Engineering	2.30pm to 4.00pm	PRD	
08/12/2023	Fri	B.Pharm 3 rd Sem (L.E Students)	Communication Skill	2.30pm to 4.00pm	KPA	



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Time table for 5th Semester Additional Sessional examination

Theory

Date	Day	Class	Subject	Time	Subject/IC	Sign
04/12/2023	Mon	B.Pharm 5 th Sem	Medicinal Chemistry-II-	10.30am to 12.00am	ASN	
05/12/2023	Tues	B.Pharm 5 th Sem	Formulative Pharmacy	10.30am to 12.00am	STS	
06/12/2023	Wed	B.Pharm 5 th Sem	Pharmacology-II	10.30am to 12.00am	RBN	
07/12/2023	Thurs	B.Pharm 5 th Sem	Pharmacognosy-II	10.30am to 12.00am	DMK	
08/12/2023	Fri	B.Pharm 5 th Sem	Pharmaceutical Jurisprudence	10.30am to 12.00am	GAV	

Time table for 7th Semester Additional Sessional examination

Theory

Date	Day	Class	Subject	Time	Subject/IC	Sign
04/12/2023	Mon	B.Pharm 7 th Sem	Instrumental Methods of Analysis	10.30am to 12.00am	RBC	
05/12/2023	Tues	B.Pharm 7 th Sem	Novel Drug Delivery System	10.30am to 12.00am	VPP	
06/12/2023	Wed	B.Pharm 7 th Sem	Industrial Pharmacy	10.30am to 12.00am	RRP	
07/12/2023	Thurs	B.Pharm 7 th Sem	Pharmacy Practice	10.30am to 12.00am	RRP	

Exam/IC

NOTE:

1. Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. The Pattern of question paper will be as per University rules.
2. Similarly, Sessional exam for Practical shall be conducted in preceding week as per regular academic schedule.
3. Three sets of question paper should be submitted in sealed envelope before 7 days examination.
4. Theory & Practical sessional accessed papers with own hand filled Marks list to be submitted physically in examination section in triplicate within 7 days.



(Signature)
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(Signature)
Principal

YASH INSTITUTE OF PHARMACY, AURANGABAD

QUESTION PAPER WITH CO MAPPING (University Examination)

FORMAT NO.: ACAD-PR07-FO17/V00/w.e.f.11January2021

ADDITIONAL SESSIONAL EXAMINATION SEPTEMBER 2023

Class: B.Pharm I Sem

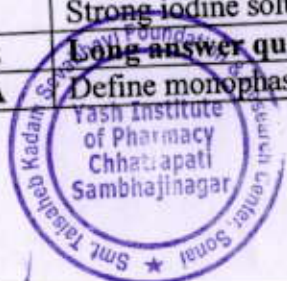
Subject: Pharmaceutics-1

Date: 06/12/2023

Maximum Marks: 30

Time: 2:30 pm to 4:00 pm

CO	Blooms Level	Q.No.	Questions
		1.	Attempt the following questions (1M X 10 = 10M)
BP103T5	Understand Remember evaluate, Analyze, apply	I	Cake formation is characteristic feature of..... Suspension. a) Flocculated b) deflocculated c) thixotropic d) structured
BP103T5	Understand Remember evaluate, Analyze, apply	II	Vaginal suppositories are also called as... a) Pessaries b) simple suppositories c) bougies d) none
BP103T5	Understand Remember apply	III	Which of the following is most commonly used suppository base..... a) Cocoa butter b) PEG 1000 c) PEG+ Hexanetriol d) none
BP103T5	Remember, understand	IV	In the preparation of vanishing cream, which of the bases are used generally? a) Absorption base c) hydrocarbon base b) water removable base d) none
BP103T5	Understand Remember apply	V Are emollient for skin a) cream b) ointment c) paste d) all of the above
BP103T5	Understand Remember apply	VI	To identify the emulsion type which of the following tests are conducted? Dilution test b) dye test c) conductivity test d) all of the above
BP103T5	Understand Remember apply	VII	Simple syrup is a saturated solution of..... a) Sucrose b) Fructose c) dextrose d) none of these
BP103T5	Understand Remember apply	VIII	Enemas are administered a) Rectally b) orally c) parenteral d) exteranlly
BP103T5	Understand Remember evaluate, Analyze, apply	IX	Elixir contain..... a) 40% glycerol b) 5-40% alcohol c) 66.7 % sucrose d) none of these
BP103T5	Understand remember	X	Mandl's paint is also known as..... a) Composed iodine throat paint c) aqueous iodine solution Strong iodine solution d) lugol's solution
		2	Long answer question (attempt any one) (1 X 10M = 10M)
BP103T5	Understand	A	Define monophasic liquid dosage form. Write classification and brief on



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	Remember evaluate, Analyze, apply		monophasic dosage form used in mouth.
BP103T5	Understand Remember apply	B	Define, advantages , disadvantages, classification and preparation of suspension.
		3	Short answer questions (attempt any two) (2 X 5M = 10M)
BP103T5	Understand Remember evaluate, Analyze, apply	(A)	Brief on: test for the identification of emulsion.
BP103T5	Understand Remember apply	(B)	Note on evaluation of suppositories.
BP103T5	Remember, understand	(C)	Explain excipients used in semisolid dosage form.



[Handwritten Signature]
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Yash Institute of Pharmacy, Chhatrapati Sambhajinagar

B Pharmacy [2023-24]

Additional sessional examination

Subject : [BP202T] BP202T Pharmaceutical Organic Chemistry I-Theory - Theory **Faculty :** Dipali Kulkarni

Year : First Year - Second Semester (2023-27) **Marks :** 30 **Date :** 23 April, 2024 **Duration :** 90 Minutes

Format No.: ACAD-PR07/V00/W.ef:01-January-2021

All questions are compulsory.

Sr.No.	Question	Marks	Course Outcome	Blooms Level
1	Q.no.1.All questions are compulsory (In this case, Compulsory Questions = 10 and Total Questions = 10).			
1.1	2-Methyl-2 propan-2-ol is an example of a. Primary alcohol b. Secondary alcohol c. Tertiary alcohol d. Quaternary alcohol	1.00	BP202T CO2	Analyze,Apply
1.2	A primary alkyl halide would prefer to undergo _____ a. SN1 reaction b. SN2 reaction c. α -Elimination d. Racemization	1.00	BP202T CO1,BP202T CO2	Evaluate,Analyze
1.3	Lucas reagent is _____ a. HCl/NaNO2 b. H2/Pd c. H2/Pd/BaSO4 d. HCl/ZnCl2	1.00	BP202T CO2,BP202T CO4	Evaluate,Analyze,Apply
1.4	Chloroform is also called a. Chloromethane b. Dichloromethane c. Trichloromethane d. Tetrachloromethane	1.00	BP202T CO5	Evaluate,Apply,Remember
1.5	Alkyl halides undergo a type of reaction a. Nucleophilic addition b. Condensation c. Nucleophilic substitution d. Elimination	1.00	BP202T CO2,BP202T CO4	Evaluate,Analyze,Apply,Understand,Remember
1.6	Chlorination of alkanes is an example of a. Radical b. Elimination c. Free radical d. Addition	1.00	BP202T CO2,BP202T CO4	Evaluate,Analyze,Apply
1.7	Elimination bimolecular reactions involve a. first order kinetics b. second order kinetics c. third order kinetics d. zero order kinetics	1.00	BP202T CO2,BP202T CO4	Evaluate,Analyze,Apply
1.8	A Ketone is a constitutional isomer of an _____ that contains the same number of carbons a. Alcohol b. Aldehyde c. Carboxylic acid d. Ester	1.00	BP202T CO3	Understand,Remember



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Yash Institute of Pharmacy, Chhatrapati Sambhajinagar

B Pharmacy [2023-24]

Additional sessional examination

Subject : [BP202T] BP202T Pharmaceutical Organic Chemistry I-Theory - Theory **Faculty :** Dipali Kulkarni

Year : First Year - Second Semester (2023-27) **Marks :** 30 **Date :** 23 April, 2024 **Duration :** 90 Minutes

Format No.: ACAD-PR07/V00/W.ef:01-January-2021

All questions are compulsory.

Sr.No.	Question	Marks	Course Outcome	Blooms Level
1.9	Which of the following alkyl halides would undergo SN2 reaction most rapidly? a. CH ₃ CH ₂ -Br b. CH ₃ CH ₂ -I c. CH ₃ CH ₂ -Cl d. CH ₃ CH ₂ -F	1.00	BP202T CO2,BP202T CO4	Analyze,Apply
1.10	2-Methyl-2 propan-2-ol is an example of a. Tertiary alcohol b. Primary alcohol c. Secondary alcohol d. Quaternary alcohol	1.00	BP202T CO1,BP202T CO4	Understand,Remember
2	Solve any ONE questions. (In this case, Compulsory Questions = 1 and Total Questions = 2)			
2.1	Explain substitution nucleophilic unimolecular reaction, mechanism with stereochemistry and rearrangement of carbocations with suitable example.	10.00	BP202T CO2,BP202T CO4	Evaluate,Understand
2.2	What are Alkanes ? Explain in detail method of preparation and chemical properties of alkanes and IUPAC rules of nomenclature for alkane.	10.00	BP202T CO2,BP202T CO4	Evaluate,Understand,Remember
3	Solve any TWO questions. (In this case, Compulsory Questions = 2 and Total Questions = 3)			
3.1	What is isomerism? Discuss the classification of structural isomerism with suitable example.	5.00	BP202T CO3	Create,Understand,Remember
3.2	Discuss on free radical addition reaction of alkenes with mechanism.	5.00	BP202T CO2,BP202T CO5	Create,Understand
3.3	Write note on stability of conjugated dienes. Explain Diel-Alder reaction.	5.00	BP202T CO2,BP202T CO5	Evaluate,Understand



Dipali Kulkarni

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YASH INSTITUTE OF PHARMACY, AURANGABAD.

Attendance and Invigilator's Report

Sessional Exam: ^{Additional sessional} First/Second/Third/Improvement Academic Session: July-Dec 2023

Class : 1st year 1st Sem B. Pharm


Date : 6/12/23

Subject : Pharmaceutics-I

Theory/ Practical

Roll No.	Student Name	Answer / Supplement No.	Signature of Student
1	— Ah —	A S	
2		A S	
3		A S	
4	Chavan Pranjal	A (67735) 07773 S	PBlavan
5		A S	
6		A S	
7	Yamad. S. Deshmukh	A 07739 S	TAD
8	— Ah —	A S	
9		A S	
10		A S	
11	Vishal Dolke	A (67740) 07777 S	JD
12	— Ah —	A S	
13		A S	
14		A S	
15		A S	
16	Nirakar Ajibhiya	A 07737 S	Najibhiya
17	Pooja ghusinge	A (67755) 07778 S	Pooja
18		A S	
19		A S	
20	— Ah —	A S	

No. Of Students : 59 Appeared: 59 Present: 13 Absent : 46

Signature of Invigilator (s)  Signature of Examination I/C  Received answer bundle As per above details. Signature of subject I/C 




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Chhatrapati Sambhajinagar

YASH INSTITUTE OF PHARMACY, AURANGABAD.

Attendance and Invigilator's Report

Sessional Exam: First/Second/Third/improvement Academic Session: July-Dec 202

Class: 1st year 1st Sem B. Pharm

Date: 6/12/23

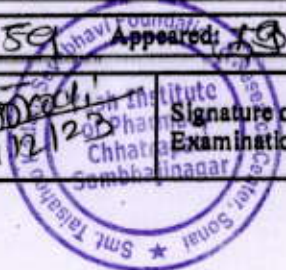
Subject: Pharmacaceutics-I

Theory/Practical

Roll No.	Student Name	Answer /Supplement No.	Signature of Student
21	Ab	A	
		S	
22		A	
		S	
23		A	
		S	
24		A	
		S	
25		A	
		S	
26		A	
		S	
27		A	
		S	
28		A	
		S	
29		A	
		S	
30		A	
		S	
31	Ab	A	
		S	
32	padole sandhya	A 07754	Padole
		S	
33	Panchaj Pratik	A 07742	Panchaj
		S	
34		A	
		S	
35		A	
		S	
36		A	
		S	
37		A	
		S	
38	Nitu Prasad	A 07736	Nitu
		S	
39		A	
		S	
40		A	
		S	

No. Of Students : 59 Appeared: 13 Present: 13 Absent : 46

Signature of Invigilator (s) <u>[Signature]</u> Date: <u>6/12/23</u>	Signature of Examination I/C <u>[Signature]</u>	Received answer bundle As per above details. Signature of subject I/C <u>[Signature]</u> Date: <u>6/12/23</u>
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Yash Institute of Pharmacy
Chhatrapati Sambhajinagar

YASH INSTITUTE OF PHARMACY, AURANGABAD.

Attendance and Invigilator's Report

Sessional Exam: ~~First~~ ^{additional session} ~~Second~~ ~~Third~~ / Improvement Academic Session: July-Dec 2023

Class : 1st Sem B. Pharm

Date : 6/12/23

Subject : Pharmaceuticals-I

Theory / Practical

Roll No.	Student Name	Answer / Supplement No.	Signature of Student
41		A S	
42	Shravani Sapkal	A 07756 S	Sapkal
43	Ab	A S	
44		A S	
45	Mujjamil shaikh	A 07757 07776 S	Mujjamil
46	Anjali Shinde	A 07734 S	AS
47	Ab	A S	
48		A S	
49		A S	
50		A S	
51		A S	
52	Shreenath. K. Susale	A 07741 S	Susale
53	Ab	A S	
54		A S	
55		A S	
56		A S	
57		A S	
58	Ab	A S	
59	Yeshu Manmath	A 07738 07775 S	Manb
		A S	

No. Of Students : 59 Appeared: 59 Present: 13 Absent : 46

Signature of Invigilator (s) [Signature] 06/12/23
 Signature of Examination I/C [Signature]
 Received answer bundle As per above details. Signature of subject I/C [Signature] 06/12/23



[Signature]
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 Chhatrapati Sambhajnagar

YASH INSTITUTE OF PHARMACY, AURANGABAD.

Attendance and Invigilator's Report

Sessional Exam: First/Second/Third/improvement ^{addition} Academic Session: 2023-24

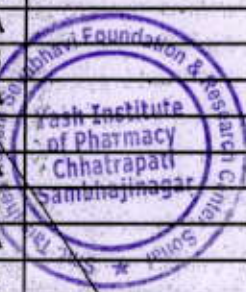
Class : II Sem B. Pharm

Date : 23/01/24

Subject : POC-I

Theory / Practical

Roll No.	Student Name	A	S	Answer /Supplement No.	Signature of Student
04	Chavan Pranjal	A	S	10792	<i>Pranjal</i>
45	Mujjamil shahid	A	S	10796	<i>Mujjamil</i>
46	Anjali Shinde	A	S	10793	<i>Anjali</i>
		A	S		
		A	S		
		A	S		
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No. Of Students : 03 Appeared: 03 Present: 03 Absent : Nil

Signature of Invigilator (s) <i>[Signature]</i>	Signature of Examination I/C <i>[Signature]</i>	Received answer bundle As per above details. Signature of subject I/C <i>[Signature]</i>
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*ACAD-PR07-F006/V00/W.e.f.: 01-January-2021

YASH INSTITUTE OF PHARMACY, AURANGABAD

Additional MARK LIST

Sessional - Ist/IInd/IIIrd/Improvement exam 2023 -2024

Academic Session : 2023 -24

Class : Ist year Ist Semester B. Pharm

Theory (Th.) Maximum Marks: 15

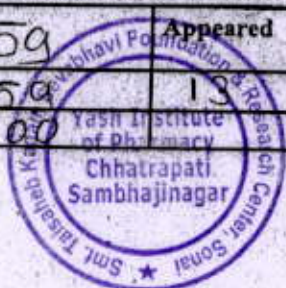
Subject : Pharmaceutics - I

Practical(Pr.) Maximum Marks : 10

Roll No.	Name of the Students	Th. (15)	Pr.	Roll No.	Name of the Students	Th.	Pr.
1	Acharya Gargi M.			26	Kukade Vishu Rajeev		
2	Bankar Sneha O.			27	Lingot. Shubhangi		
3	Barwal Rutuja R.			28	Madavi Prathamesh		
4	Chavan Pranjal B.	10		29	More Samiksha		
5	Chavan Shrutika B.			30	Mungade Rohini		
6	Chungade Sakshi			31	Nalawade Priyanka		
7	Deshmukh Tarsha	7		32	Padole Sandhya	14	
8	Deshmukh Janvi			33	Panchal Pratik	6	
9	Dhaygude Nikita			34	Panikale Koushna		
10	Dhenge Sanyak			35	Pathan Arbaz		
11	Dake Vishal R.	3		36	Patil Pranjali		
12	Dangare Rohit M.			37	Phonawane Sejal		
13	Dudhal Krishna			38	Prasad Nitu	3	
14	Gaikwad Madhuri			39	Samarth Payal		
15	Gajbhar Sakshi			40	Sandhai Vandhana		
16	Gajbhiye Nirzar	12		41	Sapnal Krishna		
17	Ghusinge Pooja	5		42	Sapkal Shrawani	4	
18	Jadhav Samiksha			43	Sasane Amit		
19	Jadhav Shilvant			44	Sawane Shrutika		
20	Janjal Chandresh			45	Shaikh Mujamil	6	
21	Kale Pankaj R.			46	Shinde Anjali	5	
22	Karpe Nikita P.			47	Shinde Shrutika		
23	Kasure Aayush H.			48	Shingare Amrapali		
24	Khandagale Tarang			49	Soni Pratham S.		
25	Kokane Pomirna			50	Sorune Gopal		

Total No. of Students	59	Appeared	Present	Absent	Scored 80% or More marks	Scored 50% or less marks
Theory	59	13	13	0	3	8
Practical	00					

Karcode
Subject Incharge



Principal
Yash Institute of Pharmacy
Chhatrapati Sambhajinagar

Examination Incharge

ACAD-PR07-F006/V00/W.e.f.: 01-January-2021

YASH INSTITUTE OF PHARMACY, AURANGABAD

MARK LIST

Sessional - Ist/ IInd/ IIIrd/ Improvement exam 2023 -2024

Academic Session : 2023-24

Class : Ist year Ist sem Semester B. Pharm

Theory (Th.) Maximum Marks: 15

Subject : Pharmaceutics-I

Practical(Pr.) Maximum Marks : 10

Roll No.	Name of the Student	Th.	Pr.	Roll No.	Name of the Student	Th.	Pr.
51	Sonure Tejaswini			76			
52	Sonure Shreenath	12		77			
53	Tamav Mahesh A.			78			
54	Tathe Yash E.			79			
55	Wagh Geetarav S.			80			
56	Wagh Pratiksha			81			
57	Wagh Shrawanl			82			
58	Waghmode Komal			83			
59	Yendure Manmath	9		84			
60				85			
61				86			
62				87			
63				88			
64				89			
65				90			
66				91			
67				92			
68				93			
69				94			
70				95			
71				96			
72				97			
73				98			
74				99			
75				100			

Total No. of Students	59	Appeared	Present	Absent	Scored 80% or More marks	Scored 50% or less marks
Theory	59	12	13	0	3	0
Practical	00					

[Signature]
Subject Incharge



[Signature]
Principal
Yash Institute of Pharmacy
Chhatrapati Sambhaji Nagar
Examination Incharge

ACAD-PR07-F006/V00/W.e.f.: 01-January-2021

YASH INSTITUTE OF PHARMACY, AURANGABAD

MARK LIST Addition Sessional.

Sessional - Ist/IInd/IIIrd/Improvement exam 20 23 -20 24

Academic Session : 2023-24

Class : U Semester B. Pharm

Theory (Th.) Maximum Marks: 15

Subject : POC-I

Practical(Pr.) Maximum Marks :

Roll No.	Name of the Students	Th.	Pr.	Roll No.	Name of the Students	Th.	Pr.
04	Chavan P.B.	08		26			
46	Shinde A.P.	09		27			
45	Shaikh M.M.	08		28			
4				29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

Total No. of Students	Present	Absent	Scored 80% or More marks	Scored 50% or less marks
Theory	03	03	03	03
Practical				



Subject Incharge

Kulkarni D.M.

Principal
Yash Institute of Pharmacy
Chhatrapati Sambhajinagar
Examination Incharge

1. Email: _____

2. Roll No. with student name *
- Mark only one oval.
- 1 Dronabiner Bitrate
 - 2 Prolonged Bioprost
 - 3 Viallet Blending
 - 4 Yanyu Blarise
 - 5 Small Brode
 - 6 Vahner Oute
 - 7 Pregel Charulhari
 - 8 Sakshi Charan
 - 9 Manaveer Chauriya
 - 10 Alpha Dimgare
 - 11 Rohan Dhare
 - 12 Gayatri Dongare
 - 13 Dnyaneshwari Duble
 - 14 Anusha Lakshmi
 - 15 Rishi Gokhwal
 - 16 Shubhin Gaware
 - 17 Poochi Ghoshkar
 - 18 Surykant Gti
 - 19 Bharti Haripale
 - 20 Srich Haridye
 - 21 Adarsh Harital
 - 22 Pratiksha Harital
 - 23 Poo Ingole
 - 24 Shikhar Karlam
 - 25 Rishabh Kishu
 - 26 Dipal Kumbale
 - 27 Rishika Kumbale
 - 28 Poojai Kumbhar
 - 29 Rishi Kulkar
 - 30 Manoj Kulkar

- Mark only one oval.
- 31 Saurabh Kulkar
 - 32 Pooja Kulkarni
 - 33 Prashant Kulkarni
 - 34 Sakshi Kulkarni
 - 35 Poojan L. Awate
 - 36 Prasad Kulkade
 - 37 Anam More
 - 38 Bhagwati More
 - 39 Veekant Mule
 - 40 Pooja Narasale
 - 41 Smitesh Narkhade
 - 42 Vimal Patil
 - 43 Vaidant Patilkar
 - 44 Smit Phadnis
 - 45 Chaitu Patil
 - 46 Supra Prasad
 - 47 Anil Patil
 - 48 Anmol Patil
 - 49 Shubham Patilkar
 - 50 Vaidant Patilkar
 - 51 Abhay Patil
 - 52 Virendra Sagarale
 - 53 Shal Sakale
 - 54 Smit Sawai
 - 55 Sameer Sapatle
 - 56 Danish Shukh
 - 57 Sameer Shukh
 - 58 Nilesh Shukh
 - 59 Abhinav Shukh
 - 60 Tanmay Shukh
 - 61 Jina Shinde
 - 62 Pooja Shinde
 - 63 Sushant Shinde

- Mark only one oval.
3. Enteric coating is used for which system? *
- Mark only one oval.
- a) Inverted release systems
 - b) Colonic release systems
 - c) Site based systems
 - d) Microcapsule systems
4. Which of the following is a characteristic of microspheres? *
- Mark only one oval.
- a) Free flowing powder
 - b) Aqueous solution
 - c) Control drug release by partitioning the drug from the oil
 - d) Adsorption of emulsion
5. Which of the following is a characteristic of microcapsules? *
- Mark only one oval.
- a) Release depending on the entire length of GIT
 - b) Hydrophilic materials in the oil and release
 - c) Release rate is specific drug
 - d) Release as well as comes in contact to the saline
6. What are the characteristics of ion exchange resin drug complex? *
- Mark only one oval.
- a) Release depending on the entire length of GIT
 - b) Drug complex in an insoluble matrix of rigid hydrophobic materials
 - c) Hollow spheres containing drug surrounded by a porous membrane
 - d) Amorphous complex between the drug and ion-exchange resin

- Mark only one oval.
6. Chitosan is isolated from the shell of the _____ *
- Mark only one oval.
- a) Crab & Shrimp
 - b) Ox
 - c) Mice
 - d) Turtle
7. Does dumping may be a general problem in the formulation of _____ *
- Mark only one oval.
- a) soft gelatin capsule
 - b) Emulsions
 - c) Modified release drug product
 - d) none of these
8. Which of the following method is used in Microencapsulation? *
- Mark only one oval.
- a) Trisulfoxone
 - b) Emulsification
 - c) Flocculation
 - d) Pear coating

Mark only one oval.

9. Enteric coating is used for which system? *

Mark only one oval.

- a) Inverted release systems
- b) Colonic release systems
- c) Site based systems
- d) Microcapsule systems

10. Which of the following is a characteristic of microspheres? *

Mark only one oval.

- a) Free flowing powder
- b) Aqueous solution
- c) Control drug release by partitioning the drug from the oil
- d) Adsorption of emulsion

11. Which of the following is a characteristic of microcapsules? *

Mark only one oval.

- a) Release depending on the entire length of GIT
- b) Hydrophilic materials in the oil and release
- c) Release rate is specific drug
- d) Release as well as comes in contact to the saline

12. What are the characteristics of ion exchange resin drug complex? *

Mark only one oval.

- a) Release depending on the entire length of GIT
- b) Drug complex in an insoluble matrix of rigid hydrophobic materials
- c) Hollow spheres containing drug surrounded by a porous membrane
- d) Amorphous complex between the drug and ion-exchange resin

Mark only one oval.

13. Enteric coating is used for which system? *

Mark only one oval.

- a) Inverted release systems
- b) Colonic release systems
- c) Site based systems
- d) Microcapsule systems

14. Which of the following is a characteristic of microspheres? *

Mark only one oval.

- a) Free flowing powder
- b) Aqueous solution
- c) Control drug release by partitioning the drug from the oil
- d) Adsorption of emulsion

15. Which of the following is a characteristic of microcapsules? *

Mark only one oval.

- a) Release depending on the entire length of GIT
- b) Hydrophilic materials in the oil and release
- c) Release rate is specific drug
- d) Release as well as comes in contact to the saline

16. What are the characteristics of ion exchange resin drug complex? *

Mark only one oval.

- a) Release depending on the entire length of GIT
- b) Drug complex in an insoluble matrix of rigid hydrophobic materials
- c) Hollow spheres containing drug surrounded by a porous membrane
- d) Amorphous complex between the drug and ion-exchange resin



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11. 3. Which is the Polymer used as Plasma volume expander? *

Mark only one oval.

a) Collagen

b) Chitosan

c) Dextran

d) Lactinon

12. 10. _____ is example of Thermosetting polymer. *

Mark only one oval.

a) Nylon

b) Polystyrene

c) Rubber

d) Silicone

13. 11. What is the characteristic of colored transit and continuous release systems? *

Mark only one oval.

a) Release the drug along the entire length of GIT

b) Prolonged their residence in the GIT and release

c) Release only 1 a specific drug

d) Release as soon as comes in contact to the submucosa

14. 18. Drug having molecular weight _____ is good candidate for Controlled drug dosage form. *

Mark only one oval.

A) more than 1000 Dalton

B) less than 100 Dalton

C) more than 1000 Dalton

D) less of the zero

15. 19. Fluidized bed coating equipment cures the capacity from? *

Mark only one oval.

a) 10-200 pounds

b) 500-1000 pounds

c) 1-1000 pounds

d) 10-1000 pounds

16. 20. Myril 52 is a *

Mark only one oval.

a) Cellulose

b) Polyvinylpyrrolidone

c) Polyvinylpyrrolidone

d) Polyvinylpyrrolidone

17. 12. What are the characteristics of osmotic pressure-controlled systems? *

Mark only one oval.

a) Buffering agents that adjust pH to the desired value

b) Release the drug at a zero-order kinetics

c) Hollow systems containing drug surrounded by a polymer membrane

d) Formation of complexes between the drug and anion/cation exchange resins

18. 13. What are the characteristics of in situ release systems? *

Mark only one oval.

a) Release the drug along the entire length of GIT

b) Prolonged their residence in the GIT and release

c) Usage of polymers that dissolves only in the alkaline pH of colon

d) Use of enteric coating

19. 14. Which of the following is a characteristic of oil solutions? *

Mark only one oval.

a) Free flowing powders

b) Aqueous solutions

c) Control drug release by partitioning the drug from the oil

d) Administration of emulsions

20. 21. What is the characteristic of delayed release systems? *

Mark only one oval.

a) Release the drug along the entire length of GIT

b) Prolonged their residence in the GIT and release

c) Release only at a specific drug

d) Release as soon as comes in contact to the submucosa

21. 22. What is the characteristic of pH-independent formulations? *

Mark only one oval.

a) Buffering agents that adjust pH to the desired value

b) Drug disperses in the insoluble matrix of rigid hydrophobic materials

c) Hollow systems containing drug surrounded by a polymer membrane

d) Formation of complexes between the drug and anion/cation exchange resins

22. 23. _____ are the characteristics of cationic release systems? *

Mark only one oval.

a) Release the drug along the entire length of GIT

b) Prolonged their residence in the GIT and release

c) Release only at a specific drug

d) Release as soon as comes in contact to the submucosa

23. 15. Enteric coating is achieved by using _____ *

Mark only one oval.

a) HPMK

b) Eudragit

c) CAP

d) Povidone

24. 16. Chitosan is not isolated from the shell of the _____ *

Mark only one oval.

a) Crab

b) Lobster

c) Turtle

d) Shrimp

25. 17. Pin coating microencapsulation process can give approximately _____ particle size. *

Mark only one oval.

a) Greater than 500 micron

b) Smaller than 500 micron

c) 250-500 micron

d) 200-300 micron

26. 24. Chitosan is a natural _____ Polymer. *

Mark only one oval.

a) Anionic

b) Cationic

c) Non-ionic

d) Ionic

27. 25. In polymer-polymer interaction the negative charge is by... *

Mark only one oval.

a) Gelatin

b) Cyclodextrin

c) Gum Arabic

d) Sucralose

28. 26. Hydroxy ethyl carbonyl methyl allyl triacrylate hydrate is amphiphilic surfactant which is known as _____ *

Mark only one oval.

a) Macrogol

b) Merquat

c) Poly vinyl pyrrolidone

d) Povidone



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27. Microencapsulation is a *
 Mark only one oval.
 a) Coating technique
 b) Microgel technique
 c) Microcapsule technique
 d) Microsphere technique

28. Which of the following is used as plasticizer? *
 Mark only one oval.
 a) Sorbitol
 b) PEG
 c) Triethyl citrate
 d) Dicalcium phosphate

29. Which of the following is an example of other taste microencapsulants? * Type
 Mark only one oval.
 a) Sucralose
 b) Saccharin
 c) Cyclamate
 d) Phenylalanine

30. Cellulose nitrate tablets are... Category * Type
 Mark only one oval.
 a) Natural
 b) Synthetic
 c) Biodegradable
 d) All of the Above

31. Spray drying spray congealing method is generally used to prepare * Type
 Mark only one oval.
 a) Tablets
 b) Microcapsules
 c) Capsules
 d) Ointments

32. _____ method is used for encapsulation of solid only * Type
 Mark only one oval.
 a) Water Process
 b) Solvent Evaporation
 c) Multistage centrifugal process
 d) Spray drying/spray congealing

33. _____ method is used for encapsulation of solid only * Type
 Mark only one oval.
 a) Adsorption
 b) Solvent Evaporation
 c) Multistage centrifugal process
 d) Spray drying/spray congealing

34. In concentration method how many phases are there? * Type
 Mark only one oval.
 a) One
 b) Two
 c) Three
 d) Four

35. All are the disadvantages of controlled drug delivery except * Type
 Mark only one oval.
 a) poor patient compliance
 b) need of additional patient education
 c) poor in vivo release in correlation
 d) slow dosing

36. An advantage of novel drug delivery system is * Type
 Mark only one oval.
 a) It causes fluctuation of blood levels
 b) It cannot be target specific
 c) It increases toxicity of drug
 d) It reduces side effects of the drug

37. Which example is not a reservoir system? * Type
 Mark only one oval.
 a) Oculars
 b) PEs
 c) Polypropylene
 d) Bone wax

38. The polycofactor influencing the design and act of controlled release product is _____ Type
 Mark only one oval.
 a) Partition coefficient
 b) Absorption
 c) Molecular size
 d) Solubility

39. All are the characteristics of controlled drug delivery except * Type
 Mark only one oval.
 a) Localized
 b) Systemic
 c) Both Localized and Systemic
 d) None of the above

40. Control drug delivery systems work on * Type
 Mark only one oval.
 a) Locally
 b) Systemically
 c) Both Locally and Systemically
 d) None of the above



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firm, its margin of safety should be

- A) very low
- B) very high
- C) normal
- D) none of the above

46. Ion activated DDS is _____ type of activated system. *

- A) Physical
- B) Chemical
- C) Biochemical
- D) All of the above

1 point

Mark only one oval.

- A) has a membrane that is soluble at intestinal pH
- B) the membrane is impermeable to D fluids
- C) the membrane is permeable to water
- D) the membrane must swell

51. 46. Example of hydrophilic swollen polymer is *

- A) Methyl cellulose
- B) Hydroxy Methyl cellulose
- C) Sodium alginate
- D) All of the above

1 point

47. Absor is an example of _____ type. *

- A) Osmotic pressure activated
- B) Vapour pressure activated
- C) Magnetically activated
- D) Hydration activated

1 point

52. If the fraction of drug in an of phase is that of an aqueous phase *

- A) f_1 f_2
- B) Dissolution
- C) Partition coefficient
- D) Permeation

1 point

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Chhatrapati Sambhajinagar

1. Quiz 2024

URL and WE

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- 60 Alumni Feedback

100%

11/10/2024

11/10/2024

- 61. Erythrocytes
- 62. Leucocytes
- 63. Platelets
- 64. RBCs
- 65. WBCs
- 66. Hemoglobin
- 67. Hematocrit
- 68. Hematocrit
- 69. Hemoglobin
- 70. Hematocrit
- 71. Hemoglobin
- 72. Hematocrit
- 73. Hemoglobin
- 74. Hematocrit
- 75. Hemoglobin
- 76. Hematocrit
- 77. Hemoglobin
- 78. Hematocrit
- 79. Hemoglobin
- 80. Hematocrit

Which is not applicable to protein binding?

- 81. High molecular weight
- 82. Low molecular weight
- 83. High protein concentration
- 84. Low protein concentration
- 85. High pH
- 86. Low pH
- 87. High ionic strength
- 88. Low ionic strength

Which among the following is the Henderson-Hasselbalch equation for a weak base and its salt?

- 89. $\text{pH} = \text{pK}_a + \log \frac{[\text{A}^-]}{[\text{HA}]}$
- 90. $\text{pH} = \text{pK}_a - \log \frac{[\text{A}^-]}{[\text{HA}]}$
- 91. $\text{pH} = \text{pK}_a + \log \frac{[\text{HA}]}{[\text{A}^-]}$
- 92. $\text{pH} = \text{pK}_a - \log \frac{[\text{HA}]}{[\text{A}^-]}$

100%

11/10/2024

11/10/2024

Which of the following parameters from plasma concentration time profile study gives indications of the rate of drug absorption?

- 93. C_{max}
- 94. t_{max}
- 95. AUC
- 96. $t_{1/2}$

Type of distribution equation as per USP is _____

- 97. One compartment
- 98. Two compartment
- 99. Three compartment
- 100. Four compartment

If albumin is 2.8 and pH of interstitial tissue is 8.8, the fraction of drug bound in interstitial form will be _____

- 101. 10%
- 102. 1%
- 103. 90%
- 104. 99%

100%

11/10/2024

11/10/2024

Which is used as a marker to determine plasma fluid? *

- 105. Antipyrine
- 106. Mannitol
- 107. Evans blue
- 108. Inulin

Which is used as a marker to determine plasma fluid? *

- 109. Antipyrine
- 110. Mannitol
- 111. Evans blue
- 112. Inulin

Which is used as a marker to determine extra cellular fluid volume except

- 113. Inulin
- 114. Mannitol
- 115. Evans blue
- 116. Antipyrine

100%

11/10/2024

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(Signature)
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Chhatrapati Sambhajinagar

1. Oct 2019

1. Which of the following statements is correct? * 1 mark

- In oral clearance increases in liver, CL_{OR}
- In oral clearance decreases in liver, CL_{OR}
- In oral clearance increases in kidney, CL_{OR}
- In oral clearance decreases in kidney, CL_{OR}

2. Creatinine clearance is used for a measurement of * 1 mark

- Renal renal absorption
- Glomerular filtration rate
- Renal excretion rate
- All of above

3. A good $in vitro$ and $in vivo$ dissociation correlation can be obtained when the * 1 mark

4. $in vitro$ dissolution is performed with: * 1 mark

- Normal condition
- Sink condition
- High temperature
- A constant value

5. If C is the concentration of dissolved drug and C_0 is the saturation concentration, in which case the sink conditions are said to be maintained? * 1 mark

- $C < 25\%$ of C_0
- $C < 20\%$ of C_0
- $C < 15\%$ of C_0
- $C < 10\%$ of C_0

6. Decrease in effective surface area inside the dissolution medium leading to a fall in the dissolution rate, may happen due to which one of the following reasons? * 1 mark

- Addition of cyclodextrin
- Addition of surfactant
- Addition of hydrophilic diluent
- Surface charge due to cations, anions or other molecules

7. Which of the following conjugate bases does NOT require neutralization with an acid conjugating agent? * 1 mark

- Glucuronidation
- Sulfation
- Hydrolysis
- Glutathione conjugation

100%

1. Oct 2019

1. Which of the following statements is correct? * 1 mark

- 1:100
- 1:200
- 1:500
- 1:1000

2. Which conditions does NOT apply to per Indian law while conducting single * 1 mark

3. Sampling period should be at least three 1/2 * 1 mark

- Sampling should represent pre-exposure, post-exposure and post-exposure phase
- There should be least four sampling points during observation phase
- Sampling should be continued till measured AUC is at least equal to 80% of AUC

4. What is the renal clearance of a substance, if its concentration in plasma is * 1 mark

5. 10 mg concentration in urine is 100 mg and urine flow is 2 ml/min? * 1 mark

- 0.02 ml/min
- 0.2 ml/min
- 2 ml/min
- 20 ml/min

6. Match the pair (a) * 1 mark

When two drugs form a single entity	If value of $t_{1/2}$ of both drugs is same	If absorption rate constants are equal	If elimination rate constants are equal	If $t_{1/2}$ of both drugs is different
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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7. AUC values of two drugs are 100 mg/ml and 200 mg/ml. The ratio of their $t_{1/2}$ values is * 1 mark

- 1:1
- 1:2
- 1:4
- 1:8

8. Urinary drug excretion is proportional to the rate of * 1 mark

- Clearance
- Volume of distribution
- Half-life
- All of the above

9. AUC follows the principles of statistical moment analysis * 1 mark

- Level A
- Level B
- Level C
- Level D

100%

1. Oct 2019

1. Oral efficacy of Sublin Pils (Sublingual) can be adequately explained by which * 1 mark

- Passive diffusion
- Active transport
- Intra-cellular transport
- Absorption

2. Hesse-Crowell's order root law dissolution states that * 1 mark

- There is a change in particle size and surface area during dissolution of drug
- Dissolution process is controlled by diffusion of molecules from
- High free energy of activation is required by solution
- Removal of surface fluid layer around drug particles

3. WHICH ONE OF THE FOLLOWING STATEMENTS HOLDS TRUE FOR PASSIVE * 1 mark

4. Diffusion

- Greater the area and greater the thickness, lower is the diffusion
- Rate of drug transfer is directly proportional to the concentration gradient between
- Diffusion process is controlled by diffusion of molecules from
- Rate of transfer of increased drug species is 1.4 times the rate for unchanged drug species
- Greater the membrane / water partition coefficient of drug, slower is the absorption

5. When considering drug delivery to the brain which of the following is false? * 1 mark

- The oil in the blood vessels that supply the brain are tightly connected which restricts drug absorption
- Only relatively small lipophilic molecules readily passively diffuse to the brain
- Drugs with a low high value show improved passive diffusion into the brain
- Polar molecules can be taken up into the brain through active transport

6. In plasma, Phenytoin is present as ionized and unionized form in equal * 1 mark

- amount
- amount
- amount
- amount

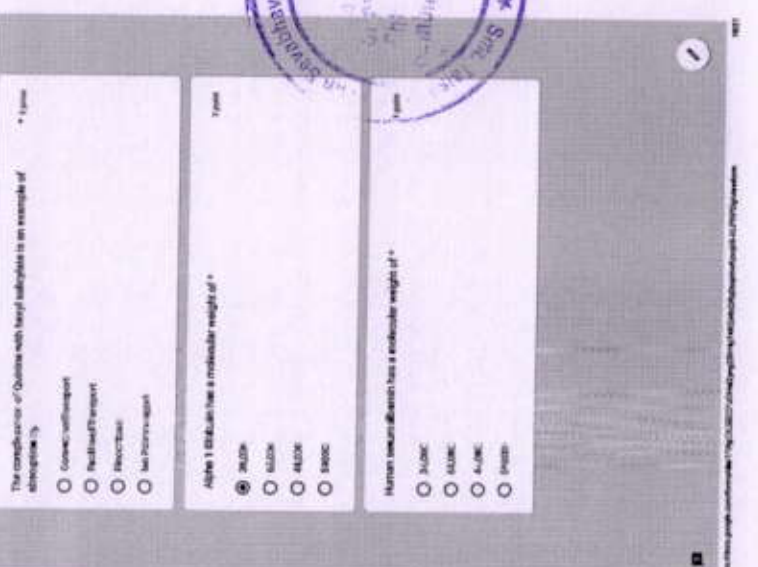
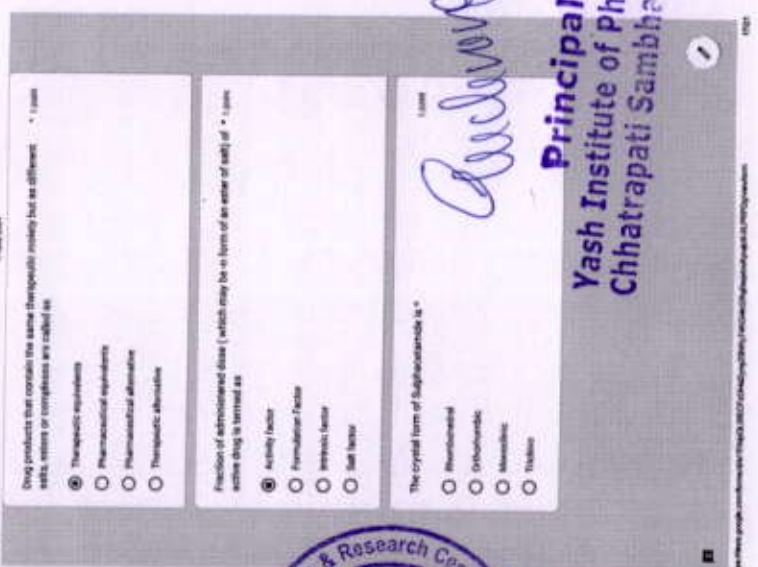
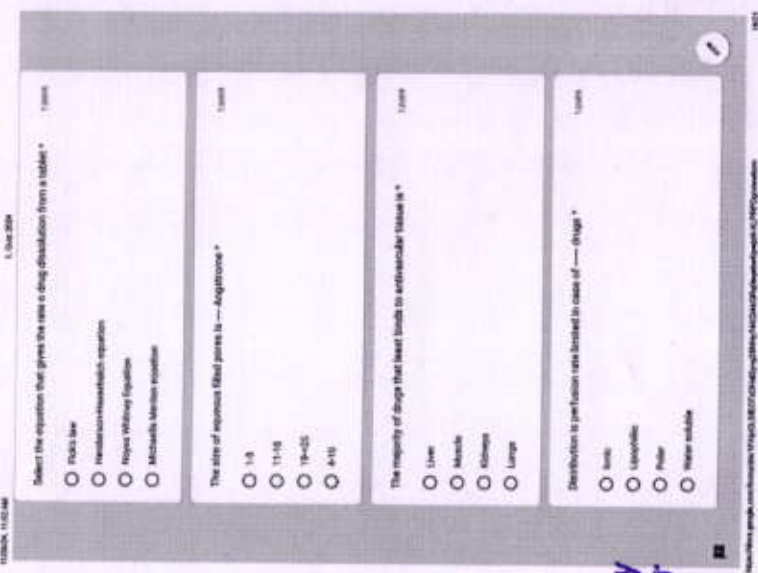
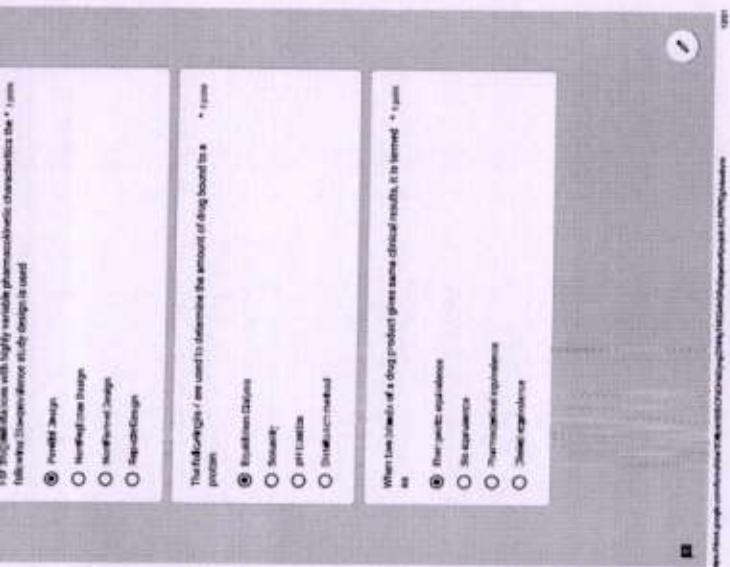
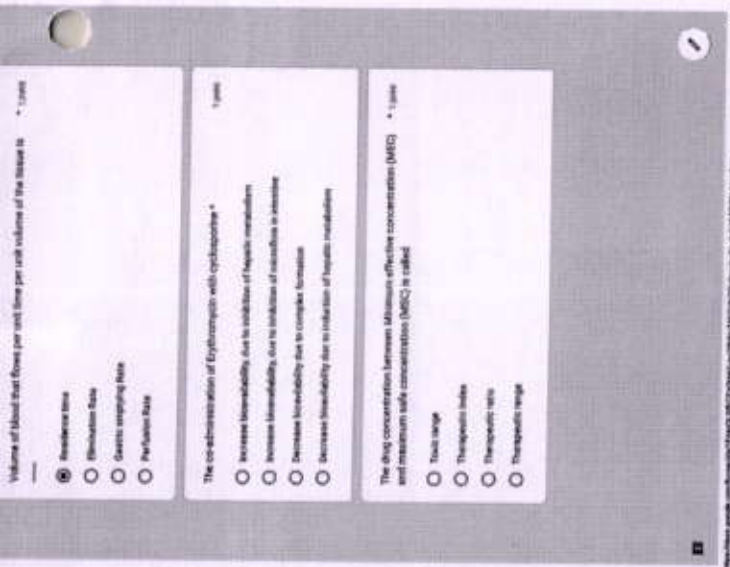
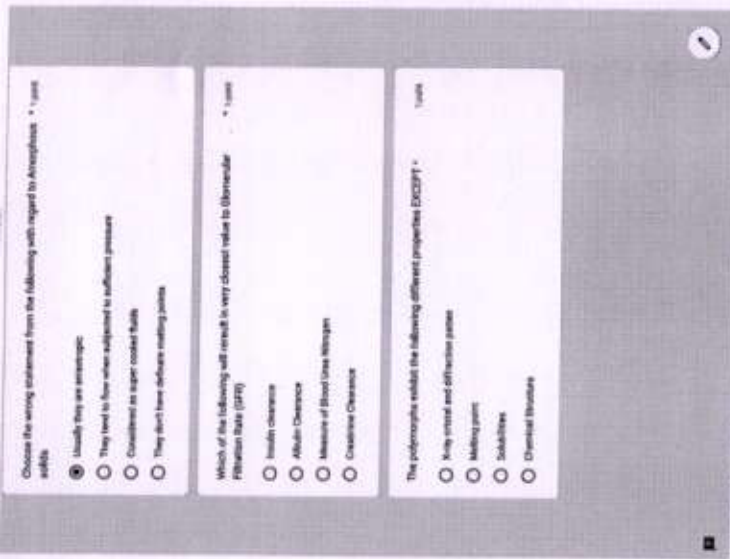
7. Very weak bases having pK_a * 1 mark

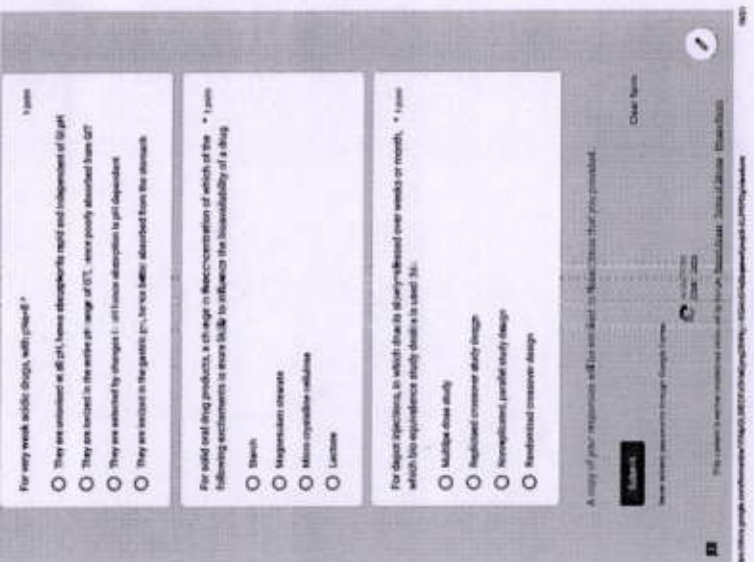
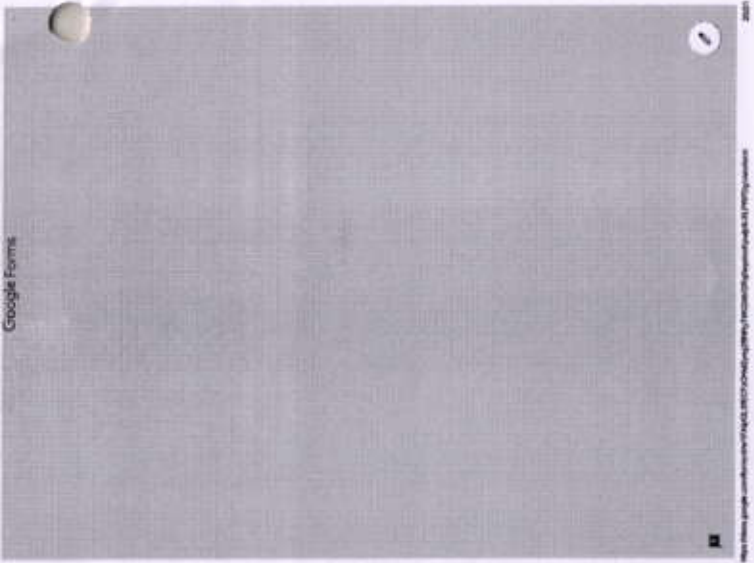
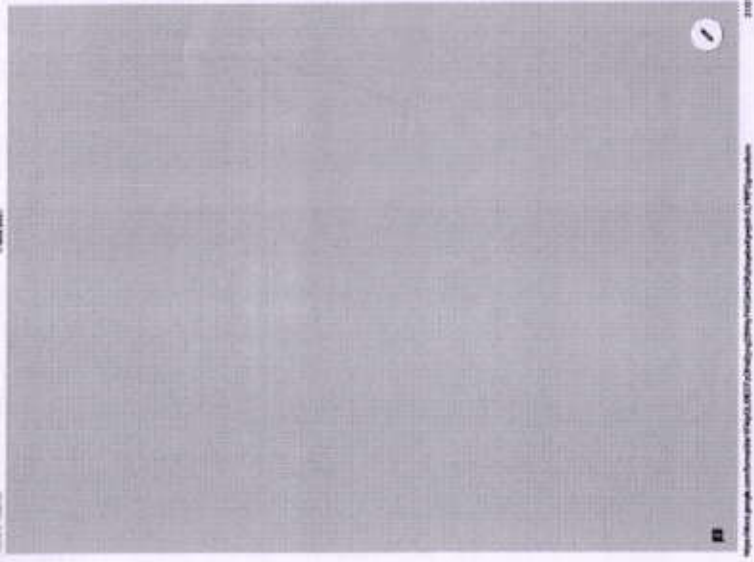
- Are ionized in the entire pH range of GIT
- Absorbed only in stomach
- Are unionized at all pH values
- None of the above

100%



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Principal
 Yash Institute of Pharmacy
 Chhatrapati Sambhaji Nagar





Handwritten signature in blue ink.

**Prinicipal
Yashir Institute of Pharmacy
Chhatrapati Sambhajinagar**

ASSIGNMENT 1

1. Email

2. Roll No. with student ID

- 31 KHANDE SAURASHI SHIVAJI
- 32 KHANDE POOLJA VISHNU
- 33 KULKARNI PRADIPAMA SAURASHI
- 34 KULKARNI BARDET SONALI
- 35 LAKSHMI PRANAV CHITRAJAN
- 36 MALHAR PRASAD KALAS
- 37 MORE AMAR SURESH
- 38 MORE BHADRADEVI SHRIYAJI
- 39 NALLE VISHNUPATI VALMUNTHI
- 40 NARALE POOLJA PARASARABH
- 41 NAVNANDE SANTOSH RAJAJAM
- 42 PACE VASUD VISHWASOD
- 43 PANDHAR VISHANT ARVIND
- 44 PANDHAR SUDH VISHVANATH
- 45 PATHAN CHANDR BHANUDEGHAN
- 46 PAVANI SUPNA SANIJI
- 47 POKALU JAYANTH
- 48 RAJTE AMOL BHAGANES
- 49 RASHTRIK SHUBHAM KACHHARI
- 50 RISHI VISHNUPATI PRASHANTHAR
- 51 ROMAN AKSHAY MACHARAR
- 52 SARDOLE VIKENDRA BHALARAO
- 53 SALLANKH DNYTA MITTHI
- 54 SANGH SINDHAL JAYEND
- 55 SARNPALE SAMIKH DINESH
- 56 SHARH DARSAN NAIR
- 57 SHARH SAMIKH ABDUL
- 58 SHIKHAR SHRIJI BAKSHANES
- 59 SHIKHAR ABHIRAM DURESH
- 60 SHIKHAR TAMARAY PRASHANT
- 61 SHIKHAR ANNA CLARISSE
- 62 SHIKHAR NIKHIL BHADRANATH
- 63 SHIKHAR NIKHIL ANIL

- 1 BHABHIC DNYANESHVAR MANK
- 2 BHADRAWATI PRADIP DILIP
- 3 BHALWANG VISHAL BALASARABH
- 4 BHAVALE YUVRAJ VISHNU
- 5 BORDI SONALI KALAS
- 6 CHATE VISHNUPATI VALMUNTHI
- 7 CHAUDHARI PRALAY SURESH
- 8 CHAVANI SAURABH PRASHANTHAR
- 9 CHODHRYA MANUVEER MANUKRUMAM
- 10 CHANDHAR ALINIKYA BALJESHA
- 11 CHENG ROHAN SURESH
- 12 DONGARE GAUTAMI DORANAH
- 13 DUBLE DNYANESHWAR SUBHASH
- 14 GANGARAO ANISHA KALAS
- 15 GANWAD RISHI BABURISHAN
- 16 GANWAD BHAVESH DATTAJAY
- 17 GHODESHWAR PRASHANT ANIL
- 18 GUN SURYAKANT NARISHAN
- 19 HAMPAL BHARTI PRASHANTHAR
- 20 HEMDE SATISH PRASHANTHAR
- 21 HOSHIL ABBIRAM POUHAD
- 22 HOSHIL PRATIKSHA BHANUBA
- 23 HOSHIL PRITHI VISHNU
- 24 KADAM BHAVANT SUBHASHIRAO
- 25 KANDE BILALJA SANGH
- 26 KAMBLE DIPALI RAMODAS
- 27 KAMBLE NAVANISHA MANOJESHAN
- 28 KAPUR NISHI PRANAV PRASHANTHAR
- 29 KATKAR RISHI DEBANSAR
- 30 KEDAR MADHUTI ASHOKIRAO

- 31 SHYAM VASUDEV DEDHARAO
- 32 SONPANE SURESH BHANUBA
- 33 SONPANE VISHI CLIP
- 34 SURESH PRANAV JAYANATH
- 35 SURESH SURESH BALSARABH
- 36 SURYAKANT MANUVEER
- 37 TALBE PRALAY ANIL
- 38 TANGIRANIKHAR RAMODAS
- 39 TANGIRANIKHAR VISHNU
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- 3. Write about adhesion enhancers suitable for transdermal drug delivery systems. Files submitted: 1 mark
- 4. Write a note on formulation of dry powdered inhalers (DPI). Files submitted: 1 mark
- 5. Write a note on floating drug delivery systems. Files submitted: 1 mark
- 6. Write about the various systems for muco-adhesion systems. Files submitted: 1 mark
- 7. Classify and describe various IVD with advantages and disadvantages. Files submitted: 1 mark

- 8. Give Formulation aspects and applications of Liposomes. Files submitted: 1 mark
- 9. What are different ophthalmic formulations? Elaborate Ointments. Files submitted: 1 mark
- 10. Elaborate basic components of TDDS. Files submitted: 1 mark
- 11. Write a note on osmotic pumps. Files submitted: 1 mark
- 12. Elaborate Transdermal Drug Administration. Files submitted: 1 mark

Yash Institute of Pharmacy & Research Center, Sonol, Sambhajinagar, Maharashtra

Principal

Yash Institute of Pharmacy
Chhatrapati Sambhajinagar

- 13. Write about adhesion enhancers suitable for transdermal drug delivery systems. Files submitted: 1 mark
- 14. Write a note on formulation of dry powdered inhalers (DPI). Files submitted: 1 mark
- 15. Write a note on floating drug delivery systems. Files submitted: 1 mark
- 16. Write about the various systems for muco-adhesion systems. Files submitted: 1 mark
- 17. Classify and describe various IVD with advantages and disadvantages. Files submitted: 1 mark

Assignment 1

Assignment

Feedback@yashinstitute.com

The name and photo associated with your Google Account will be recorded when you upload files and submit this form. They enable all those in our path of your education.

* Includes required questions

Select full nos. with Name of Student

- 1. Sustained Release
- 2. Swellable Matrix
- 3. Aqueous Chitosan
- 4. Hydrogel
- 5. Hydrogel Sponges
- 6. Smart Hydrogels
- 7. Smart Hydrogels
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Assignment 1

- 61. Factors affecting drug absorption
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- 79. Factors affecting drug absorption
- 80. Factors affecting drug absorption

Define Absorption Describe various mechanisms of drug absorption through GIT.

10 marks

Discuss various Physicochemical, pharmacokinetic and primary related factors affecting the rate of absorption.

10 marks

Differentiate Between Passive Diffusion and active Transport mechanisms.

10 marks

Elaborate Distribution term. Explain the various physiological factors for drug distribution.

10 marks

11/20/2023, 11:57 AM

Assignment 1

- 81. Factors affecting drug absorption
- 82. Factors affecting drug absorption
- 83. Factors affecting drug absorption
- 84. Factors affecting drug absorption
- 85. Factors affecting drug absorption
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- 96. Factors affecting drug absorption
- 97. Factors affecting drug absorption
- 98. Factors affecting drug absorption
- 99. Factors affecting drug absorption
- 100. Factors affecting drug absorption

Discuss salt form and polymorphism as factors affecting absorption of drug.

10 marks

Summarize on Apparent Volume of Distribution.

10 marks

Explain pH partition hypothesis along with its limitation.

10 marks

Elaborate Pharmacokinetic parameters to toxicity and clinical significance.

10 marks

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Assignment 1

- 101. Factors affecting drug absorption
- 102. Factors affecting drug absorption
- 103. Factors affecting drug absorption
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- 118. Factors affecting drug absorption
- 119. Factors affecting drug absorption
- 120. Factors affecting drug absorption

Discuss the various factors affecting Blood Clearance.

10 marks

Elaborate absolute and relative bioavailability with objectives.

10 marks

Describe pharmacokinetic measurement methods of bioavailability.

10 marks

Explain various factors affecting rate of bioavailability. What are pharmacokinetic measurement methods of bioavailability?

10 marks

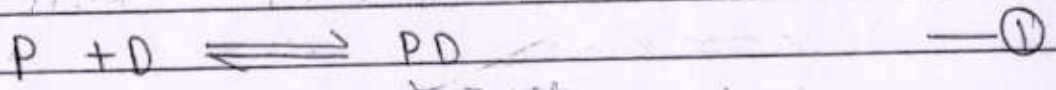
Sambhrajit
Principal
Yash Institute of Pharmacy
Chhatrapati Sambhaji Nagar

Yash Institute Foundation & Research Center, Sambhaji Nagar, Chhatrapati Sambhaji Nagar, Maharashtra 422003

Q.6] Construct the Protein-drug binding Kinetics.

Ans:- Kinetics of Protein drug binding :-

- If 'P' represents protein & D → the drug, then by applying law of mass action, to reversible protein drug binding, it gives ⇒



At equilibrium,

$$K_a = \frac{[PD]}{[P][D]} \quad \text{--- (2)}$$

So,

$$[PD] = K_a [P][D] \quad \text{--- (3)}$$

Where,

[P] = Concentration of free protein

[D] = Concentration of free drug

[PD] = Concentration of Protein-drug complex.

K_a = Association rate constant.

- If K_d is dissociation rate constant & $K_a > K_d$ → indicates forward reaction (i.e protein drug binding is favoured).

- If P_T is the total concentration of protein present, bound & unbound then,

$$[P_T] = [PD] + [P] \quad \text{--- (4)}$$

- If 'r' is no. of moles of drug bound to total mole of protein then,



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$$r = \frac{[PD]}{[PT]} = \frac{[PD]}{[PD] + [P]} \quad \text{--- (5)}$$

by substituting the value of [PD] in eqn (5) we get,

$$r = \frac{K_a [P] [D]}{K_a [P] [D] + [P]} = \frac{K_a [D]}{K_a [D] + 1}$$

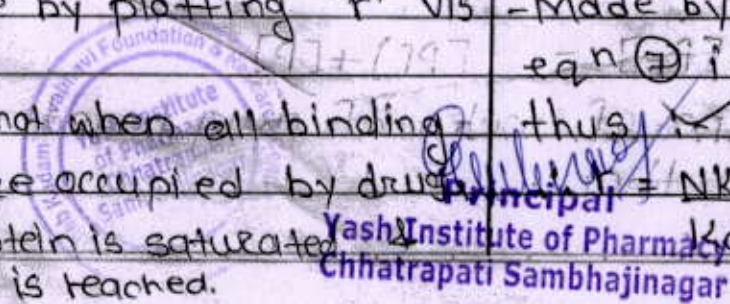
$$r = \frac{K_a [D]}{K_a [D] + 1} \quad \text{--- (6)}$$

Eqn (6) holds when there is only one binding site on the protein & the protein drug complex 1:1 complex.
If more than one or 'N' number of binding sites are available per molecule of protein then:

$$r = \frac{N K_a [D]}{K_a [D] + 1} \quad \text{--- (7)}$$

The values of association constant, K_a and the number of binding site 'N' can be obtained by plotting eqn (7) in four different ways as follows:-

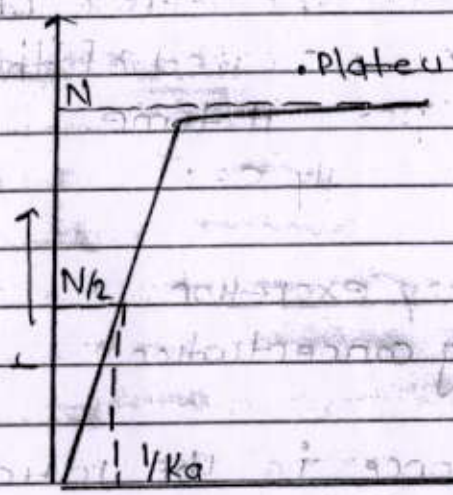
- | | |
|--|--|
| <p>(a) Direct plot
- made by plotting 'r' vs 'D'</p> | <p>(b) Scatchard plot
- Made by transformin eqn (7) into linear form</p> |
|--|--|
- Note that when all binding sites are occupied by drug the protein is saturated. Plateau is reached.



③ Direct plot :-

- At plateau $\Rightarrow r = N$

When $r = N/2 \Rightarrow [D] = 1/K_a$

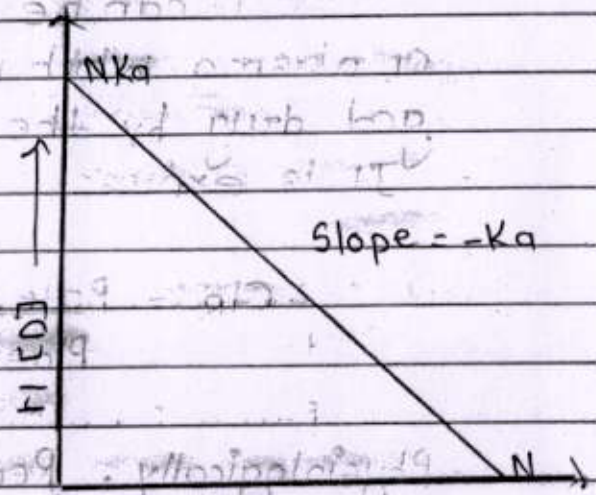


• Direct plot

$$r + rK_a[D] = NK_a[D]$$

$$r = NK_a[D] - rK_a[D]$$

$$\therefore r/[D] = NK_a - rK_a \quad \text{--- (8)}$$



• Scatchard plot

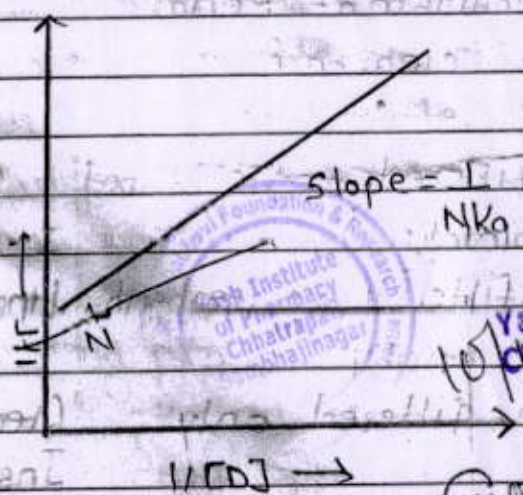
④ Klotz plot [Double reciprocal plot]

- Lineweaver-Burke plot

- The reciprocal of eqn ③

$$\frac{1}{r} = \frac{1}{NK_a} + \frac{1}{N} [D]$$

- A plot of $1/r$ vs $1/[D]$



• Klotz plot

⑤ Hitchcock plot

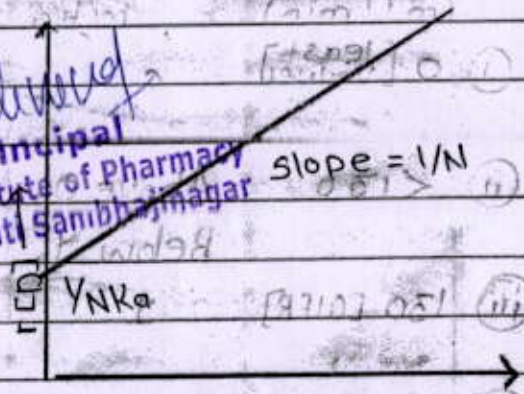
- made by rewriting eqn ③

$$\frac{NK_a[D]}{r} = 1 + K_a[D] \quad \text{--- (9)}$$

- Dividing both by NK_a

$$\frac{[D]}{r} = \frac{1}{NK_a} + \frac{[D]}{N} \quad \text{--- (10)}$$

- Plot $\Rightarrow [D]/r$ vs $[D]$



• Hitchcock plot



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Chhatrapati Sanjayrao Maharaj
Chhatrapati Sanjayrao Nagar

Yash Institute of Pharmacy, Chh. Sambhajinagar

Activity Report of Slow and Advanced Learners

Teacher's Name: Dr. Vandana Patil
Semester/ Class: VII sem.

Subject: Novel Drug Delivery System
Academic Year: 2023-2024

The activities conducted for slow learners have proven effective in providing the necessary support to improve their academic performance. Remedial classes, additional sessionals and peer mentoring have helped slow learners to understand the difficult concepts. Personalized support had increase their academic development and confidence.

The activities carried out for the advanced learners had contributed in academic and personal development of students. Assigning them as mentors, motivating them to participate in academic competitions, and engaging them in tasks such as preparing review article, delivering seminars through their own PPT have enhanced their leadership, research, communication, and critical thinking skills.



Subject In Charge



Principal

Principal
Yash Institute of Pharmacy
Chhatrapati Sambhajinagar

Yash Institute of Pharmacy, Chh. Sambhajinagar

Activity Report of Slow and Advanced Learners

Following activities were performed for Slow Learners

Used memory aids such as mnemonics for retention of key concepts like Dissolution Apparatus names
Conducted quizzes and coding games for making overall learning enjoyable
Additional sessional was planned and conducted
Remedial Classes were conducted to improve writing ability of students
Student mentors were assigned for the difficult concepts
Learners were engaged in group discussion to recall concepts.

Following activities were performed for advanced Learners

Advanced Learners were assigned as student mentors for slow learner
Students prepared and discussed smart presentation on important topics
They were promoted to participate in various activities conducted in college like poster presentation
Prepared flash cards, participated in intercollege competition




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Activity Report of Slow and Advanced Learners

For Human Anatomy and Physiology-I (2023-24, Semester I):

1. Slow Learners: Conducted three activities—assignments, tests, and open-book exams—engaging six st average performance was 58.3%.

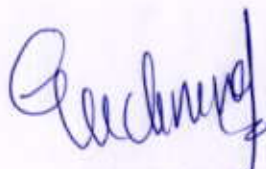
2. Advanced Learners: Organized surprise tests, descriptive question tests, and old-question paper review. Their average performance reached 93.9%.

Targeted activities enhanced both groups' learning outcomes effectively.

Teacher,s Sign



Mr. A.S. Joshi



Principal

**Yash Institute of Pharmacy
Chhatrapati Sambhajinagar**

