

D.T.E. Code - 3487



**IDEAL INSTITUTE  
OF PHARMACY**

EMPOWERING INDIA THROUGH KNOWLEDGE

Affiliated by the Mumbai University & Approved by AICTE New Delhi, DTE Maharashtra.

## *1.1.1 Academic Calendar, Class Time Table, Scheme and Syllabus, Industrial Visit And Training, Annual Function Week, Lecture Plan*

  
**Principal**  
Ideal Institute of Pharmacy  
Wada, Palghar



A Unit Of Ideal Foundation

At Village - Posheri, Taluka- Wada, District- Palghar, Maharashtra

Contact: +91-7678002000, E-mail : idealpharmacy3487@gmail.com , website: <http://Idealpharmacywada.com>

### 1.1.1 INTRODUCTION


IDEAL institute is a non profit, community-based educational institute is a best private college located at Posheri, Palghar Maharashtra . It owes its genesis to the establishment of the ideal foundation Educational Society in Palghar in the year 2013. Ideal foundation is the best multi-disciplinary, student-eccentric, research-focused college in Maharashtra , India. The Foundation has worked to support the educational and social development of communities throughout Maharashtra. The Ideal Education Foundation aims to enhance the well-being of our communities via educational and leadership development, while also promoting civic engagement. The Foundation collaborates with private and public philanthropic, corporate and community organizations to build individual, family and community capacity among the recipients of its programmatic thrusts.


IDEAL INSTITUTE OF PHARMACY is now a one-of-a-kind center of excellence in Maharashtra for pharmaceutical education and research

Activities of the Promoting Body since inception: (On Academic, Social & Industrial Activities and details on other institutions run by the Promoting Body) Members are involved in academic, social and industrial activities. The President of the society is engaged in the Social activities, which include academically and financially helping the poor and / or meritorious students.

Some members of the promoting body are involved in academic field and managing educational institutions.

The Pharmaceutical Science is a rapidly growing field in India. The field of medicine has grown exponentially during the 21 st century. New technology is emerging day by day globally in the field of Pharmaceutical Science so there is always an increasing demand for highly qualified professionals for quality education and research.

  
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The institution aims at making Pharmacy professionals to be an integral part of the society through community service, quality education and research. Its main focus is to encourage and empower young aspirant tribal and other students to take up advanced programs and careers in Pharmacy to cater to the needs of the society in health care sector and thereby uplift the socio-economic status of the region. Student centered teaching practices, various in-house activities aimed at their holistic development along with the extension programmes strive towards achieving at academic excellence in tune with integrity of character.



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### *Vision*

**To develop pharma professionals through quality education who will excel in the field of pharmacy and have good moral values.**

**Statement:** The institute believes in the vision of the governing body and works to achieve it by utilizing the institute academic disciplines to recognize and satisfy the needs of our community and empowering individuals who seek to become pharmacists, pharmaceutical scientists and advanced professional of pharmacy and the pharmaceutical sciences through innovative practice, research, education and developing analytically strong and empathetic new pharmacists who practice evidence-based pharmacy and can contribute effectively to an inter professional team working to treat individual patients and improve public health.


Also creating a supportive and nurturing environment at the institute that allows each student to succeed and flourish professionally and prepare graduates for teaching, research, and other careers in academia, the pharmaceutical industry, and regulatory agencies by providing academic, professional, and co curricular opportunities to empower students as intellectually vigorous life-long learners.


### *Mission*

- ♦ **Developing skilled pharmacist through quality education. Fostering pharmacist for pharmaceutical industries & academia.**
- ♦ *Instigate ethical practices to make students a responsible pharmacist.*

### **Objectives:**

As there is a great requirement of good services provided by well-trained specialist pharmacists in India and abroad.

  
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- ◆ We work with the objective to Create ethical, morally responsible and technically
- ◆ competent Pharmacists.
- ◆
- ◆ Help our students to acquire and disseminate professional knowledge Enable our students to become full-fledged and accomplished pharmacists. Empower economically challenged students of tribal region for a better life.
- ◆ Improve communication skills of students for better chances of employability

## 1.1 Strength, Weakness, Opportunity and Challenges(SWOC)

### *Institutional Strength*

The major strengths of the Institution have been mapped across different dimensions as;

**1. Image:** Ideal Institute of Pharmacy has established itself as leading pharmacy institute in the state providing quality pharmacy education. It makes the Institution as the most preferred choice of students and parents of the region and nearby districts. This is evident from our track record of consistently filling up full quota of seats backed up by good placements of students in renowned pharmaceutical companies.

**2. Infrastructure:** A well-developed infrastructure with a built-up area of 5421.0 Sq.M comprising of instructional area, administrative area, circulation area, amenities, sophisticated equipment's, rich library, wifi enabled campus, ICT enabled classroom, playground with indoor and outdoor sports facilities, separate hostel for boys and girls and residential facilities for staff members.

**3. Faculty:** Well qualified, well informed and experienced faculty belong to all cadres, with diversified specializations, form the backbone of the Institution's academic environment.

**4. Students** – Teacher Guardian system allows to identify the advanced learners and slow learners. Slow learners are paired up with strong learners and additional tutoring sessions are arranged. Advanced learners get space for self-learning and improvement strategies, for university examination and competitive examinations.

**5. Student Centric Approach** – Institute works for students to promote leadership, human relations, Extracurricular, Co-curricular, Sports and Cultural activities along with the celebration of national festivals and a spectrum of events and community service activities, social activities

*[Signature]*  
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through NSS and other channels. The final outcome of the same is placement of maximum number of eligible students? which is very much evident in the placement details.

**6. Training and Placement Cell:** The Cell locates job opportunities and students are placed through the on campus and off campus interviews. The cell helps students in obtaining Project Works along with placements in public and private sector. The institution is privileged to be proud for its excellent placement record. It places its students constantly in renowned companies with good salary package.

**8. Feedback System:** Feedback obtained from students, parents and stakeholders allows to focus on further improvement.

### *Institutional Weakness*

The Institution's weaknesses are primarily related to research & student profile.

1. More Quality research and publication in better journals need to be done.
2. Students are from rural areas who are striving to meet national and global standards in pharmacy Education and are finding communicating in English as a mammoth task and which becomes the hurdles for placement which must be addressed meticulously.
3. Delay in disbursement of scholarship from the government to the tribal students make the fees collection a challenge which ultimately delays the execution of planning for the institution.

### *Institutional Opportunity*

1. There is a growing demand for pharmacist who possess sound technical knowledge in pharmacy, problem- solving skills, and ability to work with heterogeneous groups. The Institution can respond to this demand by focusing on imparting such skills to its graduates.

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2. There is an increased need of job ready professionals, the institute has faculty joined from industries who can train the students in various fields of pharma industry and make them job ready.
3. To be abreast with the latest technical field and how internationally it is important for the Institution to have international tie ups with corporate in abroad.

### *Institutional Challenge*


The challenges identified includes;

1. Coping with sudden changes post covid in working standards and pharmaceutical industrial requirement to improve the Employability skills of the students.
2. Grooming the students to compete with multi-skilled pharmacy graduates
3. Maintaining the academic standards of balancing between top-notch performers and slow bloomers is posing great challenge. Bridge course activities are organized for slow bloomers.
4. Preparing the students according to the Pharma Industry and Multi-National standards.
5. To achieve Autonomous status.
6. To develop entrepreneurial aptitude among students.
7. To create awareness among the public about the proper and safe use of medicines.
8. To strengthen research temperament among students and staff.
9. To be able to obtain patents for the research work of students and staff

### 1.1 CRITERIA



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## 1.1 Curricular Planning and Implementation

*1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process*

### Response:

The planning of the curriculum is well delineated the staff gives a sketch of the subject plan of theory and practical. All staff members are informed about the commencement date and the end of teaching dates. The academic in charge is firstly asked to prepare an academic calendar and timetable for respective classes and prepare the workload distribution for the said academic year. The academic calendar and time table is then displayed on the notice board and college website.

The institute focuses on timely completion of the syllabus given by the RGPV, Bhopal following the norms of regulatory bodies like PCI and AICTE. Regular theory and practical classes are conducted as per the lecture/ practical plan and quizzes, viva, and class tests are conducted for effective learning of the lessons conducted. The periodic evaluation of the completed lessons are done by conducting a mid-semester examination where student are given to solve a set of question paper along with quiz/assignment.

The valuation of the mid-semester examination is done by the subject teacher and the evaluated copies then shared with students to make them aware of the good and bad they have done so as to improve themselves. Regular valuation of practical records along with viva vice is done for the experiments completed and marking of the same is done.

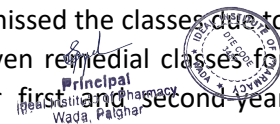
A total of two theory mid-semester and one practical mid-semester is conducted for marking to be done as per University along with regular evaluation. The final year students are promoted for research activity and the third-year student are taken for industrial visit and one month of industrial training.

The institute has a strong teacher guardian mentorship wherein the TG will maintain students' attendance, academic records and also counseling is done for academic, career and personal problems, the TG will ask to sign in and out register maintained in his cabin and whenever student need to go out of the campus during working hours He/She need to obtain a gate pass from TG, head of the institute take feedback from students on teaching learning and appropriate suggestion is given to the concerned teacher for improvement, the faculty who have missed the classes due to leave will take makeup classes/extra classes the weaker students are given remedial classes for their academic improvement. Parents Teachers meet are arranged for first and second year students to discuss their academic and extracurricular progress.

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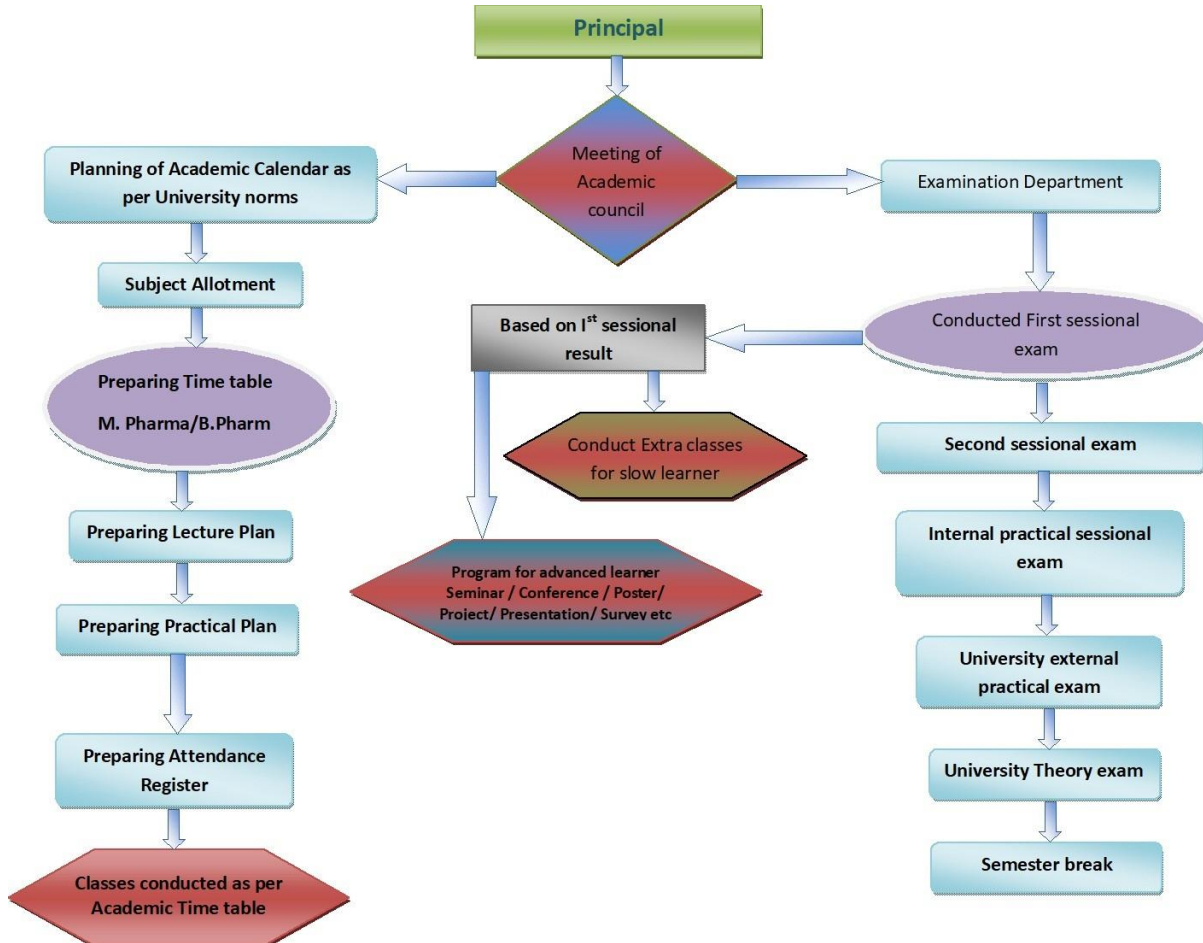
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The academic activity of the institute is monitored by a committee that will perform the academic audit by an external auditor.



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### 1.1.1

The Institution ensures effective curriculum delivery through a well planned and documented process:

S.No.	PARTICULARS
1	ACADEMIC CALENDER
2	CLASS TIME TABLE
3	SCHEME AND SYLLABUS
4	INDUSTRIL VISIT AND TRAINING
5	ANNUAL FUNCTION WEEK
6	LECTURT PLAN

  
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## ACADEMIC CALENDER FOR ACADEMIC YEAR 2019-20

### B. Pharmacy

Sr. No.	Date	Days/Events/Celebration	Responsible Staff
1	09/07/2019	II,III & IV year academic starts	All staff
2	Last week of august	1 <sup>st</sup> year orientation	All Staff
3	First week of September	Freshers Day	All Staff
4	5/09/19	Teacher's Day	Mr.Premprasad kushwaha, Mr Tanavir singh Rajput, Ms.Swapnali Vekhande
5	25/09/19	World Pharmacist Day	All Staff
6	Last week of Sep 19	Sessional Examination of III & IV Year	All Staff
7	First week of Oct 2019	Expert lecture: 1. Academic Expert 2. Industrial Expert 3. Entrepreneurship	All Staff
8	Last Week of Oct 19	Sessional Examination of I & II Year Main end semester Practical Examination Mumbai University	All Staff  Principal Ideal Institute of Pharmacy Wada, Palghar 
9	Last week of	II Sessional examinations	I year teaching faculties


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	Nov 2019		
10	First week of Dec 2019	Final end semester practical examinations II & I year	I & II year teaching faculties
11	Mid week of Dec 2019	Industrial tour and IPC	Mr Tanavir singh Rajput
12	First week of Jan 2020	Commencement of classes of III & IV year	III & IV Year students
13	Last week of Jan	Sports week	Mr Mithlesh Narware
14	First week of Feb	Annual Day	Ms. Shweta Patil, Mrs Mayuri Bhoir
15	First week of Feb 2020	Commencement of classes of I & II year	I & II year teaching faculties
16	Mid week of Mar 2020	Sessional Examination First sessional of I Year	All staff
17	First week of Apr 2020	End semester practical examination	All staff
18	First week of May 2020	Final examination of even semester	All staff
19	Mid week of May 2020	Final examinations of I & II Year	All staff

  
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Calender For Academic Year 2023-24

B. Pharmacy

Sr. No.	Date	Days/Events/Celebration	Responsible Staff
1	01/07/2023	III ,V &VII Academic Starts	All Staff
3	05/08/2023	Convocation Ceromony Of Bath 2018-2022	Dr. Sonali Uppalwar,Mr Lokesh Vyas ,Mrs Sharmila Wagh
4	10/08/2023	Tree plantation ceremony	Dr. Sonali Uppalwar,Mr Lokesh Vyas ,Mrs Sharmila Wagh
5	11/08/2023	Guru pournima celebration	All Staff
6	12/08/2023	Library day celebration	All Staff  Principal Ideal Institute of Pharmacy Wada, Palghar
7	15/08/2023	Independence day celebration	All Staff

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3	24/08/2023 To 31/08/2023	First Sessional Examination Of V & Vii Sem	All Staff
3	01/09/2023	Regular Academics	All Staff
4	5/09/2023	Teacher's Day	Dr. Sonali Uppalwar, Mr Lokesh Kumar Vyas, Mrs Mayuri Bhoir
5-	19/09/2023 to 22/09/2023	Ganapati vacation	--
6	25/09/23	World Pharmacist Day	All Staff
7	07/10/2023	Orientation day	All Staff
8	10/10/2023	Meri maati mera desh	All Staff
9	9/10/2023 To 12/10/2023	Second Sessional Examination Of Vi Sem Year	All Staff
10	18/10/2023	Freshers day	All staff
11	19/10/2023	Navratri day	All staff
12	20/10/2023 to 22/10/2023	National conference	
13	25/10/2023 To 30/10/2023	First Sessional Examination Of Iii Sem	All Staff
14	01/11/2023 To 9/11/2023	End Semester Examination Vii Sem	All Staff
15	10/11/2023 to 18/11/2023	Diwali vacations	All staff
16	20/11/2023 To 25/11/2023	First Sessional Exam Of I Sem And Second Sessional Exam Of V Sem	All Staff  Principal Ideal Institute of Pharmacy Wada, Palghar
17	04/12/2023 To 07/12/2023	Second Sessional Of Iii Sem	All Staff

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18	28/11/2023 To 11/12/2023	End Semester Examination V Sem	All Staff
19	15/12/2023 To 22/12/2023	End Semester Examination Iii Sem	All Staff
20	18/12/2023 To 26/12/2023	Second Sessional Of I Sem	All Staff
21	02/01/2024 To 12/01/2024	End Semester Examination Isem	I Year Teaching Faculties
22	13/01/2024 To 21/01/2024	Days celebration	All Staff

## Time Table

  
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IDEAL INSTITUTE OF PHARMACY ,WADA (SECOND YEAR B.PHARM) 4 TH SEM DATE-03/01/2023												
S.NO.	DIVISION	DAYS	9.30AM-10.30AM	10.30AM-11.30AM	11.30AM-12.30AM	12.30PM-01.30PM	01.30PM-02.00PM	02.00PM-03.00PM	03.00PM-04.00PM	04.00PM-05.00PM	ABBREVIATION	
1	A	MON	BATCH-A-MEDICINAL CHEMISTRY-I LAB (HM)				BATCH-C-PHARMACOLOGY-I(JB)	<b>LUNCH</b>	POC-III (DAS)	PP-II (SK)	TUTORIAL-1	POC-III-P' CEUTICAL ORGANIC CHEMISTRY-III
	B		BATCH-B-PHYSICAL PHARAMCEUTICS-II (SK)						POC-III (DAS)	PP-II (SK)	TUTORIAL-2	PP-II- PHYSICAL PHARMACEUTICS-II
2	A	TUE	POC-III (DAS)	MC-I (HM)	LIBRARY	PRESENTATION	PG-I (JB)		PG & PC (LKV)	TUTORIAL-3	DAS DR ASHUTOSG DAS	
	B		POC-III (DAS)	LIBRARY	MC-I (AD)	PG & PC (LKV)	PG-I (JB)		LIBRARY	TUTORIAL-4	SK SNEHL KHATAKE	
3	A	WED	BATCH-A-PHARMACOLOGY-I (NJ)				BATCH-C-PHYSICAL PHARAMCEUTICS-II (SK)		MC-I (HM)	PG & PC (LKV)	TUTORIAL-5	HM HARSHALI MUKTA
	B		BATCH-B-PHARMACOLOGY-I(JB)						MC-I (HM)	LIBRARY	TUTORIAL-6	DAS DR ASHUTOSG DAS
4	A	THU	BATCH-D-MEDICINAL CHEMISTRY-I (AK)				BATCH-F-PHARMACOLOGY-I (JB)		PP-II (SK)	PG-I (JB)	TUTORIAL-7	SK SNEHL KHATAKE
	B		BATCH-E-PHARMACOLOGY-I (JB)						PP-II (SK)	PG-I (JB)	TUTORIAL-8	JB JAYHIND BHARATI
5	A	FRI	BATCH-F-PHARMACOLOGY-I (JB)				BATCH-G-MEDICINAL CHEMISTRY-I LAB (GM)		MC-I (HM)	LIBRARY	TUTORIAL-9	LKV LOKESH KUMAR VYAS
	B		BATCH-A-PHYSICAL PHARAMCEUTICS-II (SN)						MC-I (HM)	PG & PC (LKV)	TUTORIAL-10	
6	A	SAT	POC-III (DAS)	LIBRARY	PP-II (SK)	PRESENTATION	PG & PC (LKV)	PG & PC (LKV)	LIBRARY			
	B		POC-III (DAS)	PRESENTATION	PP-II (SK)	PG-I (JB)	PG & PC (LKV)	LIBRARY	PRESENTATION			

  
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IDEAL INSTITUTE OF PHARMACY ,WADA (THIRD YEAR B.PHARM)											DATE-03/01/2023		
S.NO.	DIVISION	DAYS	9.30AM-10.30AM	10.30AM-11.30AM	11.30AM-12.30AM	12.30PM-01.00PM	01.00PM-02.00PM	02.00PM-03.00PM	03.00PM-04.00PM	04.00PM-05.00PM	SUB. CODE	SUB. ABBE.	SUBJECT NAME
1	A	MON	HDT (RH)	MC-III (RP)	PCOLOGY - III (ND)	LUNCH	BATCH-A-MED. CHEMISTRY LAB-I (KJ) BATCH-B-P'COLOGYLAB-III (SWP) BATCH-C-HDT LAB-II (VY)				BP601T	Med. Chem-II	Medicinal Chemistry III
			HDT (YB)	MC-III (RP)	PCOLOGY - III (ND)		BATCH-D-P'COLOGYLAB-III (YTJ) BATCH-E-MED. CHEMISTRY LAB-I (AP)				BP602T	P'Cology-III	Pharmacology III
	B						BP603T	HDT	Herbal Drug Technology				
							BP604T	Biopharm	Biopharmaceutics and Pharmacokinetics				
							BP605T	P'biotech	Pharmaceutical Biotechnology				
							BP606T	QA	Quality Assurance				
2	A	TUE	BIOPHARAM (DK)	QA (SW)	P'BIOTECH (DSU)	MC-III (RP)	PRESENTATION	HDT (MB)	LIBRARY	FACULTY NAME			
							RP RAJESH PATEDAR						
B	P'BIOTECH (DSU)		BIOPHARAM (DK)	QA (SW)					ND NIKITA DAMBALE				
					RH RESHMA HULLUR B								
				DK DHAVAAL KABIRIA									
				DSU DR DONALI UPPALWAR									
3	A	WED	MC-III (RP)	PCOLOGY -III (ND)	BIOPHARAM (DK)	HDT (RH)	PCG-III (SWP)	PRESENTATION	QA (SW)	SW SACHIN WANKHEDE			
B	HDT (RH)		PCOLOGY -III (ND)	MC-III (RP)	BIOPHARAM (DK)	LIBRARY	QA (SW)	PRESENTATION					
4	A	THU	HDT (RH)	P'BIOTECH (DSU)	BIOPHARAM (DK)	BATCH-A- HDT LAB-II (VY) BATCH-B- MED.CHEMISTRY LAB-I (KJ) BATCH-C- P'COLOGY LAB-III (SWP)							
B	BIOPHARAM (DK)		HDT (RH)	P'BIOTECH (DSU)	BATCH-D-HDT LAB-II (MB) BATCH-E-P'COLOGYLAB-III(YTJ)								
5	A	FRI	QA (MG)	P'BIOTECH (DSU)	PCOLOGY - III (ND)	BATCH-A- P'COLOGY LAB-III (SWP) BATCH-B- HDT LAB-II (VY) BATCH-C- MED.CHEMISTRY LAB-I (KJ)							
B	PCG-III (YTJ)		QA (SW)	P'BIOTECH (DSU)	BATCH-D-MED. CHEMISTRY LAB-I (AP) BATCH-E-HDT LAB-II (MB)								
6	A	SAT	BIOPHARAM (DK)	PCOLOGY -III (ND)	P'BIOTECH (DSU)	QA (SW)	MC-III (RP)	PCOLOGY -III (ND)	P'BIOTECH (DSU)				
B	PCOLOGY - III (ND)		P'BIOTECH (DSU)	MC-III (RP)	BIOPHARAM (DK)	LIBRARY	QA (SW)	PRESENTATION					

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## Scheme for awarding internal assessment: Continuous mode

### Course of study for semester I

Theory		
Criteria	Maximum Marks	
	100 M Course	50 M Course
Attendance (Refer Table – 2)	4	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3	1.5
Student – Teacher interaction	3	1.5
<b>Total</b>	<b>10</b>	<b>5</b>
Practical		
Attendance (Refer Table – 2)	2	
Based on Practical Records, Regular viva voce, etc.	3	
<b>Total</b>	<b>5</b>	

Course code	Name of the course	No.of hours	Tutorial	Credit points
BP101T	Human Anatomy and Physiology I– Theory	3	1	4
BP102T	Pharmaceutical Analysis I – Theory	3	1	4
BP103T	Pharmaceutics I – Theory	3	1	4
BP104T	Pharmaceutical Inorganic Chemistry – Theory	3	1	4
BP105T	Communication skills – Theory *	2	-	2
BP106RBT BP106RMT	Remedial Biology/ Remedial Mathematics – Theory*	2	-	2
BP107P	Human Anatomy and Physiology – Practical	4	-	2
BP108P	Pharmaceutical Analysis I – Practical	4	-	
BP109P	Pharmaceutics I – Practical	4	-	
BP110P	Pharmaceutical Inorganic Chemistry – Practical	4	-	2
BP111P	Communication skills – Practical*	2	-	1

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BP112RBP	Remedial Biology – Practical*	2	-	1
<b>Total</b>		<b>32/34<sup>s</sup>/36<sup>#</sup></b>	<b>4</b>	<b>27/29<sup>s</sup>/30<sup>#</sup></b>

Course of study for semester II

Course Code	Name of the course	No.of hours	Tutorial	Credit points
BP201T	Human Anatomy and Physiology II – Theory	3	1	4
BP202T	Pharmaceutical Organic Chemistry I – Theory	3	1	4
BP203T	Biochemistry – Theory	3	1	4
BP204T	Pathophysiology – Theory	3	1	4
BP205T	Computer Applications in Pharmacy – Theory *	3	-	3
BP206T	Environmental sciences – Theory *	3	-	3
BP207P	Human Anatomy and Physiology II – Practical	4	-	2
BP208P	Pharmaceutical Organic Chemistry I – Practical	4	-	2
BP209P	Biochemistry – Practical	4	-	2
BP210P	Computer Applications in Pharmacy – Practical*	2	-	1
<b>Total</b>		<b>32</b>	<b>4</b>	<b>29</b>

: Course of study for semester III

Course code	Name of the course	No.of hours	Tutorial	Credit points
BP301T	Pharmaceutical Organic Chemistry II – Theory	3	1	4
BP302T	Physical Pharmaceutics I – Theory	3	1	4
BP303T	Pharmaceutical Microbiology – Theory	3	1	4
BP304T	Pharmaceutical Engineering – Theory	3	1	4
BP305P	Pharmaceutical Organic Chemistry II – Practical	4	-	2
BP306P	Physical Pharmaceutics I – Practical	4	-	2
BP307P	Pharmaceutical Microbiology – Practical	4	-	2
BP 308P	Pharmaceutical Engineering – Practical	4	-	2

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**SYLLABUS****SEMESTER VI****BP701T INSTRUMENTAL METHODS OF ANALYSIS (Theory) 3L + 1T / week**

**Scope:** This subject deals with the application of instrumental methods in qualitative and quantitative analysis of drugs. This subject is designed to impart a fundamental knowledge on the principles and instrumentation of spectroscopic and chromatographic technique. This also emphasizes on theoretical and practical knowledge on modern analytical instruments that are used for drug testing.

**Objectives:** Upon completion of the course the student shall be able to:

1. Understand the interaction of matter with electromagnetic radiations and its applications in drug analysis
2. Understand the chromatographic separation and analysis of drugs.
3. Perform quantitative & qualitative analysis of drugs using various analytical instruments.


Sr. No.	Content	Hours
<b>1.</b>	<b>UNIT –I-UV Visible spectroscopy</b>	<b>10</b>
<b>1.1</b>	Electronic transitions, chromophores, auxochromes, spectral shifts, solvent effect on absorption spectra, Beer and Lambert's law, Derivation and deviations.	<b>3</b>
<b>1.2</b>	Instrumentation - Sources of radiation, wavelength selectors, sample cells, detectors-Photo tube, Photomultiplier tube, Photo voltaic cell, Silicon Photodiode.	<b>2</b>
<b>1.3</b>	Applications - Spectrophotometric titrations, Single component and multi component analysis	<b>2</b>
<b>1.4</b>	<b>Fluorimetry</b> Theory, Concepts of singlet, doublet and triplet electronic states, internal and external conversions, factors affecting fluorescence, quenching, instrumentation and applications	<b>3</b>
<b>2</b>	<b>UNIT –II -IR spectroscopy</b>	<b>10</b>

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2.1	Introduction, fundamental modes of vibrations in poly atomic molecules, sample handling, factors affecting vibrations	2
2.2	Instrumentation - Sources of radiation, wavelength selectors, detectors - Golay cell, Bolometer, Thermocouple, Thermister, Pyroelectric detector and applications	2
2.3	<b>Flame Photometry</b> -Principle, interferences, instrumentation and applications	2
2.4	<b>Atomic absorption spectroscopy</b> - Principle, interferences, instrumentation and applications	2
2.5	<b>Nepheloturbidometry</b> - Principle, instrumentation and applications	2
3	<b>UNIT –III Introduction to chromatography</b>	10
3.1	<b>Adsorption and partition column chromatography</b> - Methodology, advantages, disadvantages and applications.	4
3.2	<b>Thin layer chromatography</b> - Introduction, Principle, Methodology, Rf values, advantages, disadvantages and applications.	2
3.3	<b>Paper chromatography</b> -Introduction, methodology, development advantages, disadvantages and applications	2
3.4	<b>Electrophoresis</b> –Introduction, factors affecting electrophoretic mobility, Techniques of paper, gel, capillary electrophoresis, applications	2
4	<b>UNIT –IV</b>	8
4.1	<b>Gas chromatography</b> - Introduction, theory, instrumentation, derivatization, temperature programming, advantages, disadvantages and applications	4
4.2	<b>High performance liquid chromatography (HPLC)</b> -Introduction, theory, instrumentation, advantages and applications.	4
5	<b>UNIT –V</b>	7
5.1	<b>Ion exchange chromatography</b> - Introduction, classification, ion exchange resins, properties, mechanism of ion exchange process, factors affecting ion exchange, methodology and applications	3
5.2	<b>Gel chromatography</b> - Introduction, theory, instrumentation and applications	2
5.3	<b>Affinity chromatography</b> - Introduction, theory, instrumentation and applications	2
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		<b>45</b>

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Reference Books:

1. Instrumental Methods of Chemical Analysis by B.K Sharma
2. Organic spectroscopy by Y.R Sharma
3. Text book of Pharmaceutical Analysis by Kenneth A. Connors
4. Vogel's Text book of Quantitative Chemical Analysis by A.I. Vogel
5. Practical Pharmaceutical Chemistry by A.H. Beckett and J.B. Stenlake
6. Organic Chemistry by I. L. Finar
7. Organic spectroscopy by William Kemp
8. Quantitative Analysis of Drugs by D. C. Garrett
9. Quantitative Analysis of Drugs in Pharmaceutical Formulations by P. D. Sethi
10. Spectrophotometric identification of Organic Compounds by Silverstein

  
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**Scope:** This course is designed to impart fundamental knowledge on pharmaceutical product development and translation from laboratory to market

**Objectives:** Upon completion of the course, the student shall be able to:

1. Know the process of pilot plant and scale up of pharmaceutical dosage forms
2. Understand the process of technology transfer from lab scale to commercial batch
3. Know different Laws and Acts that regulate pharmaceutical industry
4. Understand the approval process and regulatory requirements for drug products

Sr. No.	Content	Hours
1.	<b>UNIT –I</b>	<b>10</b>
	<b>Pilot plant scale up techniques:</b> General considerations - including significance of personnel requirements, space requirements, raw materials, Pilot plant scale up considerations for solids, liquid orals, semi solids and relevant documentation, SUPAC guidelines, Introduction to Platform technology	
2	<b>UNIT –II</b>	<b>10</b>
	<b>Technology development and transfer:</b> WHO guidelines for Technology Transfer: Terminologies, Technology transfer protocol, Quality risk management, Transfer from R & D to production (Process, packaging and cleaning), Granularity of TT Process (API, excipients, finished products, packing materials) Documentation, Premises and equipments, qualification and validation, quality control, analytical method transfer, Approved regulatory bodies and agencies, Commercialization - practical aspects and problems (case studies), TOT agencies in India - APCTD, NRDC, TIFAC, BCIL, TBSE / SIDBI; Technology of Transfer (TOT) related documentation - confidentiality agreements, licensing, MoUs, legal issues	
3	<b>UNIT –III</b>	<b>10</b>
3.1	<b>Regulatory affairs:</b> Introduction, Historical overview of Regulatory Affairs, Regulatory authorities, Role of Regulatory affairs department, Responsibility of Regulatory Affairs Professionals	<b>2</b>

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<b>3.2</b>	<b>Regulatory requirements for drug approval:</b> Drug Development Teams, Non-Clinical Drug Development, Pharmacology, Drug Metabolism and Toxicology, General considerations of Investigational New Drug (IND) Application, Investigator's Brochure (IB) and New	<b>8</b>
	Drug Application (NDA), Clinical research / BE studies, Clinical Research Protocols, Biostatistics in Pharmaceutical Product Development, Data Presentation for FDA Submissions, Management of Clinical Studies.	
<b>4</b>	<b>UNIT –IV</b>	<b>8</b>
	<b>Quality management systems:</b> Quality management & Certifications: Concept of Quality, Total Quality Management, Quality by design, Six Sigma concept, Out of Specifications (OOS), Change control, Introduction to ISO 9000 series of quality systems standards, ISO 14000, NABL, GLP	
<b>5</b>	<b>UNIT –V</b>	<b>7</b>
	<b>Indian Regulatory Requirements:</b> Central Drug Standard Control Organization (CDSCO) and State Licensing Authority: Organization, Responsibilities, Common Technical Document (CTD), Certificate of Pharmaceutical Product (COPP), Regulatory requirements and approval procedures for New Drugs.	
		<b>45</b>

## Recommended Books: (Latest Editions)

1. Regulatory Affairs from Wikipedia, the free encyclopedia modified on 7<sup>th</sup> April available at [http://en.wikipedia.org/wiki/Regulatory\\_Affairs](http://en.wikipedia.org/wiki/Regulatory_Affairs).
2. International Regulatory Affairs Updates, 2005. available at <http://www.iraup.com/about.php>
3. Douglas J Pisano and David S. Mantus. Text book of FDA Regulatory Affairs A Guide for Prescription Drugs, Medical Devices, and Biologics' Second Edition.
4. Regulatory Affairs brought by learning plus, inc. available at <http://www.cgmp.com/ra.htm>.

  
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## Attendance sheet

  
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Lab Manual Record

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Course : .....		PRN No.: .....			
Semester : .....		Exam Seat No.: .....			
Sr. No.	Date	Title of Experiment	Page No.	Marks	Signature
1.	04/08/23	To perform preformulation studies on paracetamol.	1-7	7	
2.	11/08/23	To perform preformulation studies on aspirin	8-12	7	
3.	18/08/23	Preparation and evaluation of paracetamol tablet	13-20	7	
4.	25/08/23	To prepare and evaluate aspirin tablet	21-24	7	
5.	21/09/23	To study coating of tablet	25-31	7	
6.	08/09/23	To prepare the vanishing cream	32-36	7	
7.		To prepare the evaluate and submit cold cream	37-40	7	
8.		To prepare, evaluate and submit <del>for</del> Aspirine sulphate <del>eye</del> ointment USP	41-44	7	

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Page No :- ...1.....

Date :- .....

## EXPERIMENT NO : 01

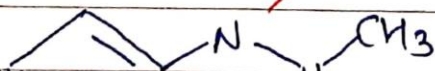
**Aim :** To perform preformulation studies on Paracetamol

**Reference :-** Dr. Ashok A Hanjare, Sandip M. Hanmane  
Nirali prakashan. practical Book of Industrial  
pharmacy.

### Theory :

The overall objective of paracetamol testing is to generate information useful to the formulation in developing stable and biocompatible dosage forms. Preformulation investigations are designed to deliver all necessary data especially physico-chemical, physiomechanical and biopharmaceutical properties. Substance and packing Materials.

Paracetamol is chemically 4-hydroxy-acet-  
anilide, para-acetaminophenol : acetyl p- amino-  
phenol : p-acetylamino phenol : p-hydroxy-aceta-  
nilide. It shows analgesic and antipyretic  
activity. Its molecular formula is  $C_8H_9NO_2$   
and molecular weight is 151.16g/mol.  
Its structural formula is given below.



Requirement :-

Apparatus :- Weighing balance, Spatula, beaker, stirrer, gas burner, cloth etc.

Equipments :- UV Spectrophotometer, FTIR, Centrifuge, pH meter, bulk density, Apparatus, hot air oven etc.

Chemical :- Paracetamol, Hydrochloric acid (2M) & Sulphuric acid (1M), phosphate buffer, pH (8), Ethanol, chloroform, metronidazole, n-octanol, ferric solution 0.1N, Conic ammonium sulphate 0.0167M, potassium dichloromate, distilled water etc.

Material and Procedure :-

1. Organoleptic Properties :-

These properties include the physical description of the drug structure. The colour, odour and taste of the new drug or excipients must be recorded using descriptive terminology. It is important to establish a standard terminology to describe these properties in order to avoid confusion among scientists using different terms to describe the same property: following are the Organoleptic Properties

Color :- Milk white

Odour :- Odourless

Taste :- Slightly bitter.

## 2. Bulk Characteristics :-

### a] Melting point :-

The melting point of a pure solid is defined as the temperature at which solid and liquid exist in equilibrium. The melting point is a particular temperature or range of temperature over which substance exists in equilibrium and can be used as an indicator of purity of drug substance. It can be determined from melting point test apparatus or characterized by very sharp melting point in RSC. An altered peak or peak at different temperature may indicate an adulterated or impure drug. Melting point of a drug substance can be measured by using three techniques.

#### i] Capillary melting

#### ii] Hot stage microscopy

#### iii] Differential Scanning Calorimetry (Thermal Analysis)

### Capillary melting method.

#### Procedure :-

1. Take small quantity of drug and place in a thin walled capillary tube of approximately 10-12 cm length with 1mm diameter, closed at one end.
2. Place the capillary tube containing sample in melting point apparatus and heat to melt.
3. Note the melting point of paracetamol is 169-170°

Result :- Melting point of paracetamol found to be 168°

### b) pH Determination:

pH Determination is important to assess drug stability, dissolution behavior and potential interactions with excipients. It helps predict dissolution rates optimize bioavailability and ensure consistent drug release profiles.

#### Procedure:-

- i. Shake 1% w/v dispersion of the paracetamol powder in distilled water for 5 min.
- ii. Determine the pH using a digital pH meter or by using pH paper and pH scale.
- iii) Record the pH observed and compare with standard value.

#### Result:-

### c) Determination of Solubility:

Qualitative solubility analysis of drugs can be determined in distilled water and other solvents such as hydrochloric acid (0.1N) phosphate buffer (pH 6.8) ethanol, ether at specified temperature.

#### Procedure:-

- i. Take 5 ml solvent and add paracetamol in gram (1) into the solvent till saturation stage appears in the solvent.
- ii Filter the mixture using filter paper to remove any undissolved particles.

\* Observation table for Preformulation Parameters

Sr no	Tests	Standard	Observation	Inference
1	Description [Organoleptic Parameters]	White Crystalline Slightly bitter	Colour: white odour: odourless Taste: - Bitter	Comply with I.P.
2	Melting Point	169°C	168°C	Comply with I.P.
3	PH determination	07 Neutral	07 Neutral	Comply with I.P.
4	Solubility	Soluble in ethanol, water, HCl	Soluble in water, ethanol, HCl	Comply with I.P.
5	Angle of Repose	$\theta = 31.9^\circ$	$\theta = 30^\circ$	Comply with I.P.
6	Bulk density	<del><math>\rho = 0.63</math></del>	$\rho = 0.43$	Comply with I.P.
7	Tapped density (SD tapping)	$\rho = 0.69$	$\rho = 0.59$	Comply with I.P.







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in the

  
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Tapped

g	Carr's Index	9.58	23.7	Comply with 7p
g	Hausner's Ratio	1.09	1.31	Comply with 7p

\* Calculation:

$$\text{Bulk density} = \frac{\text{Mass}}{\text{Bulk volume}}$$

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powder around the peak of powder sample and then remove the powder from graph paper.

v. Draw the lines in the Circle forming diameter  
vi. Then using formula measure the angle of repose of paracetamol

$$\tan \theta = \frac{h}{r}$$

$$\theta = \tan^{-1} \frac{h}{r}$$

Result: the angle of repose of paracetamol was found to be 30 and the flow is good.

### 3] Bulk Density

It is obtained by measuring the volume of known mass of powder that passed through the screen

### Procedure:

1. Weigh paracetamol powder having air apparent volume between 60ml to 100 ml for 100ml measuring cylinder (minimum 60% of capacity of cylinder).
2. Record the mass of empty 100ml graduated cylinder then using funnel add the sample upto 60% capacity of cylinder and record total weight. Subtract weight

Corr's Index =  $\frac{\text{Tapped density} - \text{Bulk density}}{\text{Tapped density}}$

$$= \frac{0.59 - 0.48}{0.59} \times 100$$

$$= 23.7$$

Hausner's Ratio =  $\frac{\text{Tapped density}}{\text{Bulk density}}$

$$= \frac{0.59}{0.48}$$

$$= 1.31$$

as tapped density is superior to spread ratio; this  
 • keep it usually with less than 1.05 and at least 0.5

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Principles of Pharmacology and Therapeutics

1. The study of the action of drugs on the body  
2. The study of the mechanism of drug action  
3. The study of the clinical use of drugs  
4. The study of the side effects of drugs  
5. The study of the drug metabolism  
6. The study of the drug excretion  
7. The study of the drug interactions  
8. The study of the drug abuse  
9. The study of the drug dependence  
10. The study of the drug withdrawal  
11. The study of the drug toxicity  
12. The study of the drug resistance  
13. The study of the drug safety  
14. The study of the drug quality control  
15. The study of the drug stability

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iv. Calculate the bulk density as.

$$\text{Bulk density} = \frac{\text{Mass}}{V_b} \text{ g/ml}$$

[M = Mass of Sample,  $V_b$  = unlapped bulk volume]

Result: the bulk density was found to be 0.44

### F] Tapped density.

It is obtained mechanically tapping the measuring

cylinder containing powder.

Calculate the tapped density as,

$$\text{Density} = \frac{\text{Mass}}{V_T} \text{ g/ml}$$

[M = Mass of Sample,  $V_T$  = final tapped volume]

Result: The tapped density of penacetamol was found to be 0.59

### g] Compressibility [Carr's Index]

The compressibility of a powder can be defined

as its ability to decrease in volume under pressure

It can be used to predict the flow properties

based on density measurement

$$\text{Carr's index} = \frac{\text{Tapped density} - \text{Bulk density}}{\text{Tapped density}} \times 100$$



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Hausner's ratio is an indirect index of ease of powder flow

It is calculated by following formula.

$$\text{Hausner ratio} = \frac{\text{Tapped density}}{\text{Bulk density}}$$

Result: - The Hausner's ratio of paracetamol was found to be 1.31 and flow is fair.

Result: - The given sample of paracetamol complies with Z.P Specifications.

1] It is stable at 25 to 37°C / 75-100% RH

2] It is stable at light places

3] It is compatible with all excipients

4] It can be suitable for formulation as tablet

D.T.E. Code - 3487

MSBTE Code - 1847



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Question paper theory

Ideal Institute of Pharmacy  
SESSION: 2023-24  
First Sessional Theory Examination Nov-2023

Subject: Industrial pharmacy I Subject code: BP5021  
B. Pharmacy 3<sup>rd</sup> Year (V Sem)

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Time: 60 minutes Max Marks: 30

**INSTRUCTIONS TO CANDIDATES**

(3) Attempt all the questions  
(4) All questions carry marks as indicated.

Q.1	Attempt all the questions	1X10
(a)	Unequal distribution of color on the surface of tablet is called 1) weight variation    2) mottling    3) capping    4) picking	(1)
(b)	Magnesium stearate is used 1) anti-oxidant    2) anti adherent    3) coater    4) All of above	(1)
(c)	Bloom strength is used to check the quality of 1) lactose    2) ampoules    3) hardness of tablet    4) gelatin	(1)
(d)	Sweetening agent commonly used in chewable tablet formulas 1) lactose    2) saccharin sodium    3) mannitol    4) none	(1)
(e)	Which is also known as wurster Coater? 1) FBD    2) pan coater    3) perforated pan coater    4) FBC	(1)
(f)	20. Non uniformity during uneven colour distribution in tablet surface is called 1) orange peel    2) mottling    3) picking    4) capping	(1)
(g)	The role of borax in cold creams is 1) Anti-microbial agent    2) To provide fine particles to polish skin 3) In-situ emulsifier    4) Antioxidant	(1)
(h)	27. When given intravenously, a drug has bioavailability of – 1) 10%    2) 100%    3) 50%    4) 70%	(1)
(i)	Which of the following is commonly used as a preservative in eye drops? 1) Propyl paraben    2) Butylated hydroxy Toluene 3) Phenol    4) Benzalkonium chloride.	(1)
(j)	44. Value of angle of repose < 30 indicates? 1) Good flow property    2) Passable 3) Excellent flow property    4) Poor	(1)
Q.2	Attempt <b>any two</b> out of three questions	2X5
(a)	Discuss formulation of pellets?	(5)
(b)	Describe evaluation of liquid orals ?	(5)
(c)	Discuss granulation methods ?	(5)
Q.3	Attempt <b>any one</b> out of two questions	1X10
(a)	Describe formulation and evaluation of soft gelatin capsules ?	(10)
(b)	Describe formulation and evaluation of lipsticks	(10)

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Q.P. Code: - 38034  
Date: 30/11/2023

[Total Marks: 75]

Duration: (3 hours)



- N.B.: 1. All questions are compulsory.  
2. Draw neat and well labeled diagrams wherever necessary.  
3. Figure to the right indicate full marks.

## Q.1. Multiple Choice Questions (MCQs)


20M


- Content Uniformity test is applicable especially when drug content is \_\_\_\_\_ of the total tablet or capsule weight.
  - less than 10 mg or 10%
  - less than 20 mg or 20%
  - more than 10 mg or 10%
  - more than 20 mg or 20%
- Arching and rat-holing are problems associated with \_\_\_\_\_ of powder blend.
  - non-uniform drug mixing
  - weight variation
  - poor flow properties
  - poor mixing
- Which of the following step is not a part of wet granulation?
  - Slugging
  - Blending
  - Milling
  - Wet massing
- Collection of wax on a sugar-coated tablet is called as \_\_\_\_\_.
  - Marbling
  - Orange peel effect
  - Blooming
  - Sticking-Picking
- Ozone depletion is the main drawback of \_\_\_\_\_ propellants.
  - Hydrocarbons
  - Chlorofluorocarbons
  - Compressed gases
  - Hydrogenated gases
- The hydrolytic resistance of type II glass is increased by treating it with \_\_\_\_\_.
  - Sulphur
  - Phosphorous
  - Freon
  - Sodium
- Oil and water phase are mixed at 70°C in the manufacturing of a \_\_\_\_\_.
  - cream
  - shampoo

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- c. toothpaste
  - d. lipstick
8. Type A gelatin is obtained by \_\_\_\_\_ of dry bones or skin.
- a. Acid treatment
  - b. Alkaline treatment
  - c. Ester hydrolysis
  - d. Amide hydrolysis
9. The ability of a compound to crystallize in multiple forms is known as \_\_\_\_\_.
- a. Anisotropy
  - b. Polymorphism
  - c. Polymerization
  - d. Racemization
10. Identification test for emulsion is \_\_\_\_\_.
- a. Re-dispersibility test
  - b. Dilution test
  - c. Particle size changes
  - d. Sedimentation volume
11. \_\_\_\_\_ density gives estimate of interparticle pores and void spaces.
- a. Bulk
  - b. Tapped
  - c. True
  - d. Apparent Bulk
12. pKa determination helps in analysing \_\_\_\_\_ of a drug.
- a. percent ionized and unionized fraction
  - b. percent water and lipid soluble component
  - c. Surface charge
  - d. Solid and solution state stability
13. Distillation is one of the methods of preparation of \_\_\_\_\_.
- a. Water for Injection
  - b. Emulsion
  - c. Eye drop
  - d. Ear drops
14. The following route of administration gives 100% bioavailability.
- a. Intradermal
  - b. Intramuscular
  - c. Subcutaneous
  - d. Intravenous

  
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15. In freeze drying process, moisture is removed by a process of -
- Sublimation
  - Congeaing
  - Evaporation
  - Crystallization
16. Injection of a highly hypertonic solution can lead to \_\_\_\_
- Shrinkage of blood cells
  - Bursting of blood cells
  - No effect on cells
  - Reduction in the plasma volume
17. Which of the following plasticizer is preferred in capsule manufacturing?
- Lactose
  - PVP
  - PEG
  - Sorbitol
18. Identify the incorrect step in manufacturing of empty hard gelatin capsule shells.
- Coating
  - Dipping
  - Spinning
  - Trimming
19. One of the following physical forms of a drug shows rapid dissolution and absorption *in vivo* as compared to others-
- Crystalline
  - Hydrous
  - Amorphous
  - Mixed
20. Which gram-negative bacteria is generally found to be present in ophthalmic products?
- Escherichia coli*
  - Pseudomonas aeruginosa*
  - Staphylococcus aureus*
  - Streptococcus pneumoiae*

  
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Q.2. Answer any 2 questions.

2 x 10 = 20M


1. Enlist merits and demerits of tablets. Write a note on excipients used in tablets.
2. Provide a comprehensive explanation of the production facilities used in the manufacturing of parenteral products.
3. Discuss drug-excipient compatibility studies and solid-state stability studies done during preformulation stage of drug development.


Q.3. Answer any 7 questions.

7 x 5 = 35M

1. Describe evaluation of parenteral suspensions.
2. Write a short note on ophthalmic ointment bases.
3. Explain steps in sugar coating of tablets.
4. Elaborate on two phase and three phase system in aerosols.
5. Write in brief about blister packaging of solid unit dosage forms.
6. Justify importance of polymorphism studies in preformulation.
7. Discuss all the ingredients used in the formulation of a lipstick.
8. Explain QC tests for hard gelatin capsules as per IP.
9. Elaborate on the glass containers used in parenterals and discuss tests to distinguish between them.

\*\*\*\*\*

  
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D.T.E. Code - 3487

MSBTE Code - 1847



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Answer sheet

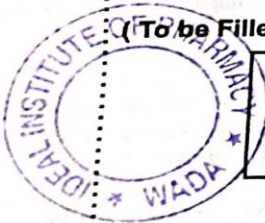
Question No.	1	2	3	4	5	6	7	8	9	10	11	12	13	Total	Signature
Examiner	13	14	19											46	<i>SR</i>
Moderator															
Re-assessor															

Examination : Ty B pharma Branch/semester : II  
Subject : Industrial pharmacy I Paper : Theory  
Section : Morning Scheme : Revised/ Old R-19  
Day & Date : Thursday, 30/11/2023  
Question Paper Code No.: 38034  
Answering Language : English  
Supplement Count : Main Answer Book + \_\_\_\_\_ Supplements

Junior Supervisor's Full Signature with date *SR* 29/11/23

Code Number: 250135  
(For Office Use Only)

(To be Filled in by the candidate)



College Seal & Date  
(to be affixed within the square)

*SR*

Candidate's Seat No.  P  5  0  1  3 (In Figures)

P - five zero one three

(In Words)

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Centre : wada

Centre Code : 1094

**INSTRUCTION TO CANDIDATES**

- Candidates should occupy the correct seats and write correct seat numbers and other details in the space provided for the purpose on the answer books on part-1 only.
- Candidates who are not in their seats by the time notified, will not as a rule, be permitted to appear for the examination. The Senior Supervisor may at his/her discretion admit those, who give him/her a satisfactory reason.
- Each answer book contains thirty two / forty pages. Check whether the relevant answer book supplied contains thirty-two / forty pages and whether the pages are properly numbered.
- Candidates should write their answers in handwriting legibly. They are warned that zero marks will be assigned to answers which cannot be assessed by the examiners owing to illegible handwriting.
- Write on both sides of the page. Rough work where necessary should be done on last page in the space provided and in pencil only no page should be left blank, any such act shall be treated as unfair means.
- Do not damage or make a stray marks on the bar code.
- Do not damage or make a stray marks on the bar code.
- Candidates will not be permitted to leave the examination hall until half an hour after the question papers are distributed.
- All answer-books supplied shall be returned whether written or blank, nothing shall be written on the question paper.
- No sheet shall be torn from the answer books provided nor shall additional papers attached to them.
- No Supplement is to be provided to the candidates in any case as the pages of Answer books are sufficient to mitigate the needs for writing answer.
- Even if it is mentioned in question paper to write each section in separate answer book, if any paper/subject have multiple sections, the candidate has to write all sections in one and the same answer book.
- A warning bell will be given ten minutes before the close of the examination candidates will not be allowed to leave the examination hall during the last ten minutes. At the final bell they must stop writing and be ready to hand over their answer books to the Junior Supervisor. They should not leave their seats until answer books from all candidates are collected by the Junior Supervisor.

**UNFAIR MEANS IN THE EXAMINATION**

- Candidates shall write the answer only with BLUE or BLACK Ink Ball pen. Use of any other pen like Gel ink or Fountain Ink any other colour ink, will be treated as unfair means in terms of revealing of Identity.
- Candidates are forbidden to (i) bring any books, notes scribbling papers, pages, Mobile Telephones or any other similar devices & smoking in the examination hall (ii) speak or communicate in any manner to any other candidate, while the examination is in progress, and (iii) take with them any answer book written or blank while leaving the examination hall. The supervisors / authorised persons are authorised to check the students.
- A Candidate who discloses any instructions issued by the senior / Junior Supervisor or who is guilty or rude or disobedient behavior is liable for disciplinary action to be taken against him/her by the University.
- Do not fold the answer book anywhere because it will be treated as unfair means in terms of revealing of Identity.
- Candidates suspected to be guilty of any the aforesaid acts will be allowed to write their paper only after giving an undertaking in writing that the decision of the University in respect of the reported act of unfair means is binding on them. Exchange of writing materials, pencils, mathematical instruments, etc. is strictly prohibited. If candidates want anything, they should approach the Junior supervisor without disturbing other candidates. However, they should not leave their seats on any account.
- Any method to bribe the examiners by attaching currency notes to letters is strictly prohibited and will result in serious action being taken by the University.
- Seat numbers should not be written at any place in the answer- books except at the space provided for the same. Candidates should not write their names in any part of the answer- books, Writing Name, Seat No., Phone/Call No, Putting Signature, use of religious invocation or any writing that is not relevant to the answer anywhere in the answer-book will be treated as attempt to reveal identity.
- Underlining of answer for focusing attention is permitted. However, Use of varied Inks, except for illustration and figures must be avoided. DO NOT use symbol like underlining the question or using colour arrows for P.T.O. These will all be considered as attempts to reveal identity the specific answer- books & will be treated as unfair means.
- Candidates are requested to go through the provisions of the Maharashtra Act No. XXIX of 1982, i.e. an Act to provide for Preventing malpractice at University Board and Other Specified examinations published in the Maharashtra Government Gazette, dated 14th October 1982, every offence under this Act is a cognizable and non-bailable offence.

**IT IS PRESUMED THAT CANDIDATE HAS READ ALL THE ABOVE INSTRUCTIONS**

**START WRITING HERE**



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Space for Marks	Question No.	Answer
I.	1.	(a) less than long or low.
	2.	(c) poor flow properties.
	3.	(b) milling
	4.	(d) sticking - picking
	5.	(b) chitosan/urea carbon.
	6.	(b) phosphorous
	7.	(d) cream
	8.	(d) ABC treatment.
	9.	(b) Polymorphism
	10.	(b) Distillation test
	11.	(a) Bulk
	12.	(a) percent ionized and un-ionized fraction
	13.	(b) emulsion



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Place  
or  
Date

Question  
No.

14. (d) Intravenous

15. (c) Evaporation

16. (a) shrinkage of blood cell

17. (d) Sorbitol

18. (a) coating

19. (c) Amorphous

20. (d) Streptococcus pneumoniae.



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START WRITING HERE

Space for Marks	Question No.
	Q.2.
	1. Merits and demerits of tablets:-
	• Merits / Advantages:-
	- Tablets are coated with sugar which are avoid the unpleasant taste.
	- cheap in cost.
	- They are soluble in stomach with the help of HCl which present in stomach.
	- And the tablet are contain solid dosage form which are can take orally.
	- These machine and preparation are easy for pharmacist.
	- It can be orally consumed for treatment of internally disease.
	- It will also have benefits for directly effect the organs with our damage.
	- And tablets are usually help for medications which can be reach to the site of action and help of blood circulation.

START WRITING HERE



Space for Marks	Question No.
	Q.2.
	1.
	• Demerits / Disadvantages:-
	- They are not for children (children are not swallow the tablet directly)
	- Difficulties for swallowing.
	- Some tablets are dissoluble properly into the stomach.
	- There has problem for manufacturing (they are broken down when pressure is apply on it)
	- And, it has some defect are also present such as, bitterness, disomy, enter orange peeling, etc.
	- It can be has problem for shipping or storing.
	- In the preparation of tablets are not helpful for personally.
	- They have some unconscious people may cannot intake the tablet directly.
	- It can have difficulties of old age people

tablets :-  
 tablets during manufacturing

excipients used in tablet  
 for the tablet for  
 shape and size and  
 form.

present one manufactured  
 and preparing the  
 way.



Space for Marks	Question No.	
	Q.2.	
	1.	
	•	Excipients used in tablet manufacturing :-
	(1)	Lubricant :- It is used to mix up the powder or ingredients and in equal quantity for the smoothing and upper layering. So that the tablet and swallowed easily through Oesophagus
	(2)	Binder :- In tablet has present some binder agent which used to binding it ingredient property :-
	(3)	glinder :- It is used for preparing the tablet for glinder are used.
	(4)	Sweetening Agent :- It is used for unpleasant taste and colour to removed into the tablet. eg. sucrose, methylcellulose.
	(5)	Flavouring Agent. It is used for has not flavours then they give the tablet making types flavour. eg, cinnamon, mint etc.



START WRITING HERE

Question No.	Answer
Q.1.	
2.	<p>Parenteral products:</p> <ul style="list-style-type: none"> <li>- It is defined as the parenteral in Greek form 'parent' means outside or beside and 'entri' means 'intertine'.</li> <li>- It means that the products are used into the injection forms into the body.</li> <li>- And the parenteral products are not means that the drugs solution given into the outside or beside of intestine.</li> <li>- In parenteral form they has some types such as intramuscular, intravenous, subcutaneous, intraveneous, etc.</li> <li>- In the Based on route of administration they are Intramuscular, Intravenous, Subcutaneous etc.</li> <li>- In the Based on pharmacokinetics properties which used in ADME, forms such as Antioxidant, preservative, antimicrobial and sterilisation etc.</li> <li>- They has some isotonicity properties also present on it. which help to osmotic pressure level into the same on it the body.</li> </ul>



START WRITING HERE

Question No.	Answer	Space for Marks
Q.1.		
2.	<p>There has some production facilities in the manufacturing of parenteral drugs.</p> <ul style="list-style-type: none"> <li>- Cleaning of closures and equipment.</li> <li>- cleaning room.</li> <li>- preservation of solution.</li> <li>- cleaning air.</li> <li>- And some other production facilities.</li> <li>- Also present for manufacturing parenteral drugs.</li> <li>- cleaning of closures and equipments.</li> <li>- In the the production of parenterals we can use to cleaning the equipment of closure into the help of detergents then sterilized them with help of autoclaving in to 40°C.</li> <li>- Then put them into the chlorine for sterilizing them.</li> <li>- And then take the equipment into the autoclaving machines.</li> <li>- And make them microorganism prevention them.</li> <li>- They have to be pyrogen free.</li> </ul>	

Space for Marks	Question No.
	Q.1.
	2.
	cleaning room:-
	• In this we can firstly clean the room with the help of detergents.
	- Then we can used to sterilised the room with the help of sanitizing product and then washing them properly
	- They have not present into the microbes or fungus, they have to be pyrogen free.
	- And these produced followed into the under the high aseptic condition.
	• cleaning air:-
	In this we can oxidised the air into the production room, they are antimicrobial and they have not content of microbes into the air.
	- And also they will oxidising the antioxidant product into the air they will kill all the microbes, which present into the air and also kill the pyrogen.

Space for Marks	Question No.
	Q.1.
	2.
	- And cleaning the air with the under high aseptic condition before this procedure in it.
	• Preserving area to clean:-
	- Where we will preserve the drug of it can be cleaning the area.
	- The solution which are used for the product for production.
	- Firstly sterilised the preserving area kill all the pyrogen which present that area.
	- Then performe this step under the aseptic condition.
	- And the drug used to preserved into aseptic condition.
	- These steps are used for aseptic control aseptic environment.



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Space for Marks	Question No.	
	Q.1.	
	2.	<p>Aseptic Area:-</p> <p>In this, the solution has to be production area or in high aseptic condition.</p> <p>- And these area are used to be pyrogen free. Containers are sterilized.</p> <p>- After the solution are produced in the aseptic area.</p> <p>- They have not contain any type of micro organisms or other bacteria.</p> <p>• Fill the solution and Area:-</p> <p>- When we fill the solution on that time we will notice the bacteria or microbes they will kill properly.</p> <p>- Firstly, cleaning the equipment and then measuring them.</p> <p>- After measuring we can put into the proper bottles such as vials, ampoules or infusion bottles.</p>

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Space for Marks	Question No.	
	Q.1.	
	2.	<p>environmental control.</p> <p>- In these the solution has to be produce in to the environment they want to be proper environment for production.</p> <p>- There are some method used on it.</p> <p>(1) Visual method.</p> <p>(2) Microscopic method.</p> <p>(3) Pressure method.</p> <p>(4) Colter counted method.</p> <p>- In visual method, we will know the bacteria present on it, then be visualizing the bacteria directly.</p> <p>- In microscope method, we can used some microscope for the 100x magnifying them.</p> <p>- Colter counter method, we will used to produce into the some proper thing can used to removed the bacteria into the environment.</p>



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Space for Marks	Question No.
	Q.1.
	2.
	• There are the production facilities used in the production or manufacturing of parenteral products.
	- And the proper following steps are used in under the aseptic condition means high aseptic condition
	- OR if still observe & into the condition on it.



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Space for Marks	Question No.
	Q.2.
	• Sugar coating :- It is defined as the tablet is implement. tests which are carried out on it.
	• Steps of sugar coating :- (1) Compression. (2) smoothening. (3) sweetening. (4) mixing.
	1. Compression :- In this method, the tablet is the sugar which we can produce the tablet with the help of tablet.
	- And it will help to produce which has some taste of sugar also help to sweeten them the children.
	- Compression method is used in the sugar coating.



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Space for Marks	Question No.
	Q.3.
	3.
	- And it will be produced into the condition of sugar of present some other. glucose, sucrose, lactose
	- they are sweetening the taste of drugs we can not have difficulties for sweetening them.
	(2) Sweetening :-
	- In this, we will use the sugar (beater for given the smooth texture into the tablets.
	- And we will use the sugar for not come the unpleasant taste on the tablets.
	- And tablets are produced smoothening structure up to the tablets.
	- The tablet after compressed then they want to be smoother some tablet has the break out into the tablet the they will help them to smoothening properly.



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Space for Marks	Question No.
	Q.3.
	9.
	- With the help of sweetening the tablets, sweetened properly.
	- They cannot given the difficulties to sweet the tablets.
	- These we will use the sweetening process the tablets.
	(2) Sweetening :-
	- In the sweetening, the taste of tablets are unpleasant.
	- That unpleasant taste we can use some sweetening agent on it.
	- Sweetening agents such as methyl cellulose, lactose these agent are used for manufacturing the tablet and sugar coating.
	- And the sweetening agents are used for the the unpleasant taste of tablets which is used in the production of tablets.



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Space for Marks	Question No.	Answer
	Q.3.	Yellow iron film Silver ammonium
	2.	
	(4) mixing:-	
		The mixing of all ingredients into the tablet and the mixing of ingredients in proper help for mixing of granules in proper forms.
		- And the mixing of all properties of the tablets which can be properly revolved around and mixed around it.
		- The equipment of mixing in sugar coating such as fluidised bed coated.
		- When the help spray nozzles which can be used production of these properties.
		- The mixing process is usually had to be performed on it.
		• There are the steps in coating of tablets which we can use for production of coated tablets.



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Space for Marks	Question No.	Answer
	Q.3.	
	1.	
		• Parenteral suspension:- It means that the beside the intestine the drugs are injected on the st.
		- The evaluation test of parenteral suspension are same as the quality control test of parenteral product.
		• Some tests are present into the parenteral suspension is:- (1) sterility test (2) pyrogen test (3) clarity test (4) leakage test.
		1. sterility test.
		- In this the parenteral product which we can use to sterilized with the proper substance such as detergents or other products.
		- And it can be used for the sterilizing the parenteral solution in clarity form the evaluation.



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Space for Marks	Question No.	
	Q.3.	
	1.	And the sterility test was followed with the help of examining the produced art worked properly or not.
	(2)	pyrogen test :- In this we known to detect the pyrogen or present or not. There has method used in it :- (a) Rabbit test :- In this we can take 3 Rabbit, <del>with</del> any sex, their weight is about 0.8g <del>to</del> and below to 0.14g. Then prepared the solution of porcinised drug which has present chloride and carbonic acid. The put the solution with the help of injection or syringes into the rabbit ear veins then they put the rabbit into the examined test.



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Space for Marks	Question No.	
	Q.3.	
	1.	Then notice <del>then</del> and give the dose into a time in every 30 mins and observe the and calculated the values of the we noted into the <del>book</del> . Result :- The temperature of Rabbit are <del>to</del> 6°C to 14°C then the test of rabbit was paired. OR the temperature are not that much then the test was not paired, and then followed same procedure with the help of 5 Rabbit 3 (3) clarity test :- In this test we can find the clarity into the solution. which we can used to followed some clarity test with the help of sodium chloride potassium hydroxide. And it will be observed in under the accept revolution properly.



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Space for Marks	Question No.	Answer
	Q.3.	
	1.	leakage test:-
		In this test, we can perform two methods for performing this test.
		method I:-
		we can take the blue methyl substance and put into the ampoules which we can have to identify the leakage present or not.
		Then the ampoules sitting bottles put into the solution if there is leakage present then the solution is colour in blue.
		Then we can find out the test of leakage are passed.
		Method II:-
		The bottle of ampoules, vial and infusion then we give the pores on them.
		Then the microorganism present into the solution that the colour are getting different.
		Then this test is passed.



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Space for Marks	Question No.	Answer
	Q.3.	
	1.	There are three test which we can use for the parenteral suspensions.
		And it can be performed the following test and identify them
		Although this product is used properly and shipping them properly.



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Question No.	Space for Marks
Q.3.	
8.	
• Quality control test for hard gelatin capsule.	
(1) Disintegration	
(2) Dissolution	
(3) PH Buffer	
(4) Weight variation.	
(5) Solubility.	
(6) Antioxidant	
(7)	
- There are the quality control test for hard gelatin.	
• Some organoleptic properties are also present on it.	
- Such as odour, taste, colour, hardness and shape.	
• And organoleptic properties are.	
(1) Disintegration.	
In this the solubility of drug which can be find the drug in the formulation of the help of some solid sample of drug and put them in the solution.	



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Question No.	Space for Marks
Q.3.	
8.	
(2) Dissolution test	
- In this the drug of capsule put into the dissolution apparatus and they have add 0.1% HCl solution	
- And put the drug on it and measure and observe the timing of the capsule and dissolve and noted them.	
(3) PH Buffer.	
- In this, we can identified the pH value of capsule into the solution.	
- They are acidic or basic in nature we can find them.	
- They must be help to find them.	
(4) Solubility test.	
- In this we can used some various solvent and put the capsule from and find out the result of solubility.	


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Question No.

Q.3.

8.

- And the solubility used to analyze the capsule are soluble or not.

- There are two quality (pharma) test we can find into the capsule.

- They are help to protect into the preparing the product.

2B

Space for Marks

Question No.

Q.3.

7.

Lipstick - There are two types of camoufler which is used for beautifying the person or ladies.

• There are ingredients used in the formulation of a lipstick.

(1) Base

(2) Co-solvents.

(3) Flavouring agent.

(4) Sweetening agent

(5) Antioxidant

(6) Preservative

- There are the ingredients of the product the lipstick.

Formulation of lipstick

- Mix the raw materials evenly

- Add preservative so that the lipstick away from micro organism

- Add antioxidant so that the lipstick get oxidative while using it.

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Question No.	Answer
Q.3.	
7.	New oral flavoring agent and coloring agent.
-	Then the lipstick gets its proper shade and flavor.
-	This is applied on lips on taste is necessary on the lipstick.
-	New powder form in a mould and kept it freeze them in proper form.
-	And put the solute in case of lipstick.
•	These are the formulation of lipstick.
-	Lipstick are classified into the solution of beautying agent of the formulation of lipstick.
-	Then the lipstick produce properly.
-	for the preventing from corona free of microorganism.



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Space for Marks	Question No.	Answer
	Q.3.	
	7.	Formula of lipstick :-
	•	<ul style="list-style-type: none"> <li>- Beeswax - oily</li> <li>- paraffin -</li> <li>- distilled water</li> <li>- color matter oil.</li> </ul>
	Q.4.	These are formula of lipstick which we seen used for the preparation.



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Question No.

3.

polymorphism is -

- It means that the poly means many

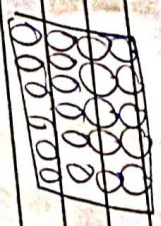
and morphism means form.

- In this the active ingredients combine in each other and form complex form.

- The Repeated unit of atoms of the compound which can combined into the formation.

- The ability of compound to crystallize in multiple forms is known as polymorphism.

eg,



- In these the atoms are arranged in the complex form and produced into the formation of substance.

START WRITING HERE

Space for Marks

Question No.

Q.3.

6.

- And it can be performed into the production of crystallized in multiple forms of atom on it.

- There has some properties used for morphism and forming the product in proper.

OR true are forming the product in proper way.



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Space for Marks	Question No.	
	Q.3.	
	2.	<p>Ophthalmic ointment have</p> <p>It is an ointment used to treat or cure non eye ointment or infection in eye.</p> <p>It is mainly consist of</p> <ul style="list-style-type: none"> <li>- preservatives.</li> <li>- Beeswax</li> <li>- Paraffin.</li> </ul> <p>Beeswax and paraffin are melted at first in a cylinder measuring.</p> <p>Then they are mixed together.</p> <p>Now they are placed in the ointment tray and.</p> <p>Now start the mold up like mix turn in ointment tray</p> <p>They will form into the thick paste and turn performed well.</p>



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Space for Marks	Question No.	
	Q.3.	
	2.	<p>And then poured them into the suitable containers.</p> <p>After the process are over for preparing the paste dust on it.</p> <p>OR It will be observed in the placed of in ointment.</p> <p>The ophthalmic has prevent active ingredient product are used on it.</p>



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Space for Marks

Question No.

Q.3.

Blister packaging of solid unit dosage form.

In this the unit dosage form has to formation of blatching and booming into the product used for preparation of solid unit dosage.

It is the defects of solid dosage form means Blatching of material

And it can be used for the preparation

used to be following the preparation

And used to followed the solid unit tablet.


It will used for per



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 FIRST SESSIONAL THEORY EXAMINATION AUG-2023  
 ATTENDANCE SHEET  
 T.Y B.PHARM V SEMESTER  
 SESSION-2023-24


Subject Name:- Industrial pharmacy - I


Date:- 25/08/2023

Subject Code:- 502T

Sr.No.	Roll No.	Name of the Student	No. of suppliment used				Student Signature
1	PH21001	BAGAL RUTUJA VINAYAK	1				R.v.Bagal
2	PH21002	BELHEKAR TEJAL KISAN	1				Tejal
3	PH21003	BHANDARI SHREYA SANTOSHI	1				Shreya
4	PH21004	BHANUSHALI LEENA ULHAS	1				Leena
5	PH21005	BHANUSHALI SIDDHI MANOJ	2				Siddhi
6	PH21006	BHANUSHALI SUJAL SACHIN					Sujal
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8	PH21008	BHOIR NAYAN ANIL					Nayan
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13	PH21013	DEHURE GAYATRI MURLI	1	1			Gayatri
14	PH21014	DEVENDRAM SHUKUMARI SUDALAIMUTHU	1	1			Devendra
15	PH21015	DWIVEDI ANKITA SANJAY	1	1			Ankita
16	PH21016	GAIKAR MANSI NARESH	1	1			Mansi
17	PH21017	GAIKWAD SAGAR LAHU	02				Sagar
18	PH21018	GAIKWAD VIJAYA RAVIKAR	1				Vijaya
19	PH21019	GANGODA CHETAN SHANKAR	1				Chetan
20	PH21020	GARJE SEJAL BALASAHEB	02				Sejal
21	PH21021	GAURAV SAROJ GUPTA	1	1			Gaurav
22	PH21022	GAVALI KULDEEP BALASAHEB					Kuldeep
23	PH21023	GENDEWAD SANDESH SHIVRAJ	1	1			Sandesh
24	PH21024	GHODVINDE VAIBHAVI PANDHARINATH	1				Vaibhavi
25	PH21025	GOTARNE JATIN BHASKAR	1				Jatin
26	PH21026	GOTARNE KRUTIKA VIJAY	1	1			Krutika
27	PH21027	GURUDE DARSHAN VISHAL	1				Darshan

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Subject Name:-

Industrial pharmacy - I

SESSION-2023-24


Subject Code:-

Date:-

25/08/2024

Sr.No.	Roll No.	Name of the Student	No. of suppliment used	Student Signature
41	PH21041	MAHAJAN CHIRAG DINKAR		<i>Amahajan</i>
42	PH21042	MAHALE AKSHAY VAIBHAV		<i>A.V. Mahale</i>
43	PH21043	MALI TRUSHA NITYANAND		<i>Malali</i>
44	PH21044	MANZE PRATIKSHA SANTOSH		<i>Manze</i>
45	PH21045	MARU UMANG RAMESH		<i>Umang</i>
46	PH21046	MOHIRE YATEEN MILIND		<i>Yateen</i>
47	PH21047	MURADEJ ANVI SUDHIR		<i>Muradej</i>
48	PH21048	NARKHEDE GAURAV DNYANDEO		<i>Narkhede</i>
49	PH21049	NARSALE PRATHAMESH BALSHIRAM		<i>Narsale</i>
50	PH21050	NIPURTE SANIKA SURESH		<i>Nipurte</i>
51	PH21051	PANDEY RITIKA PAWANKUMAR		<i>Pandey</i>
52	PH21052	PATEL ALISHA PARVEJ		<i>Patel</i>
53	PH21053	PATHARE JAY SHARAD		<i>Pathare</i>
54	PH21054	PATIL CHAITALI BHALCHANDRA		<i>Patil</i>
55	PH21055	PATIL JANHAVI VINOD		<i>Patil</i>
56	PH21056	PATIL JIDNYESH HEMANT		<i>Patil</i>
57	PH21057	PATIL KARISHMA PRAKASH		<i>Patil</i>
58	PH21058	PATIL PRACHI RAM		<i>Patil</i>
59	PH21059	PATIL SAHIL RAJENDRA		<i>Patil</i>
60	PH21060	PATIL SALONI SUBHASH		<i>Patil</i>
61	PH21061	PATIL SURRIYA RANJIT		<i>Patil</i>
62	PH21062	PATIL TEJASWI SANTOSH		<i>Patil</i>
63	PH21063	PATIL VIRAJ ASHOK		<i>Patil</i>
64	PH21064	PAWAR APEKSHA LADAKU		<i>Pawar</i>
65	PH21065	PAWAR NIVKUMAR SHIVAJI		<i>Pawar</i>
66	PH21066	PAWAR PRATIKSHA MADHUKAR		<i>Pawar</i>
67	PH21067	PAWAR YADNESH AJIT		<i>Pawar</i>

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68	PH21068	PAWAR YASH MILIN							
69	PH21069	PRATIBHA KUMARI							
70	PH21070	PURVE HITAKSHI ROHIT							Pul
66	PH21066	PAWAR PRATIKSHA MADHUKAR							
67	PH21067	PAWAR YADNESH AJIT							Y. Pawar
68	PH21068	PAWAR YASH MILIN							Ghotlika
69	PH21069	PRATIBHA KUMARI							Pul
70	PH21070	PURVE HITAKSHI ROHIT							(Zane)
71	PH21071	RANE UTKARSHA KAMLAKAR							Jusfia
72	PH21072	RAO JATIN SHIVAJI							refuse Mani
73	PH21073	RATHOD MANSI MAYUR							Pratik
74	PH21074	RAUT RIDDHI ULHAS							Ravi
75	PH21075	RAVAL VIDHI PANKAJ							Hadi
76	PH21076	SAH SACHIN JITENDRA							Pratik
77	PH21077	SAMBARE MANASWI PANDURANG							Pratik
78	PH21078	SATPUTE ABHISHEK VISHNU							Pratik
79	PH21079	SAWANT RUGVED SANTOSH							Pratik
80	PH21080	SAWANT YASH DEEPAK							Pratik

Subject No

Subject

Se

No. of Student Present:

No. of Student Absent:

Total No. of Student:

Name & Signature of Invigilator-I

Sharmila Wagh

Name & Signature of Invigilator-II

*[Signature]*

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INDUSTRIAL TRAINING

REPORT OF ONE MONTH

INTERSHIP

(1<sup>st</sup> JUNE -30<sup>th</sup> JUNE,  
2022)

AT

MICROPURE PARENTERALS PVT LTD , NEHROLI , WADA

BY

Apeksha Bhalchandra Patil

Student of

Third year B. Pharmacy Ideal Collage Institute Of Pharmacy Posheri , (wada)  
Maharashtra

421303

## Acknowledgment

I consider it a great privilege and honour to have had the opportunity of industrial internship to under the Micropure Parenterals Pvt. Ltd. Hence, I would like to offer my heartiest thanks to Mr. Rajan Kudale Sir ( HR Manager).

*Rajan Kudale*

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I am greatly indebted to Principal Dr. Vilasrao J. Kadam Sir, Associate professor Sandip Patankar sir for enabling us to have the chance of industrial training and arranging such a nice arrangement.

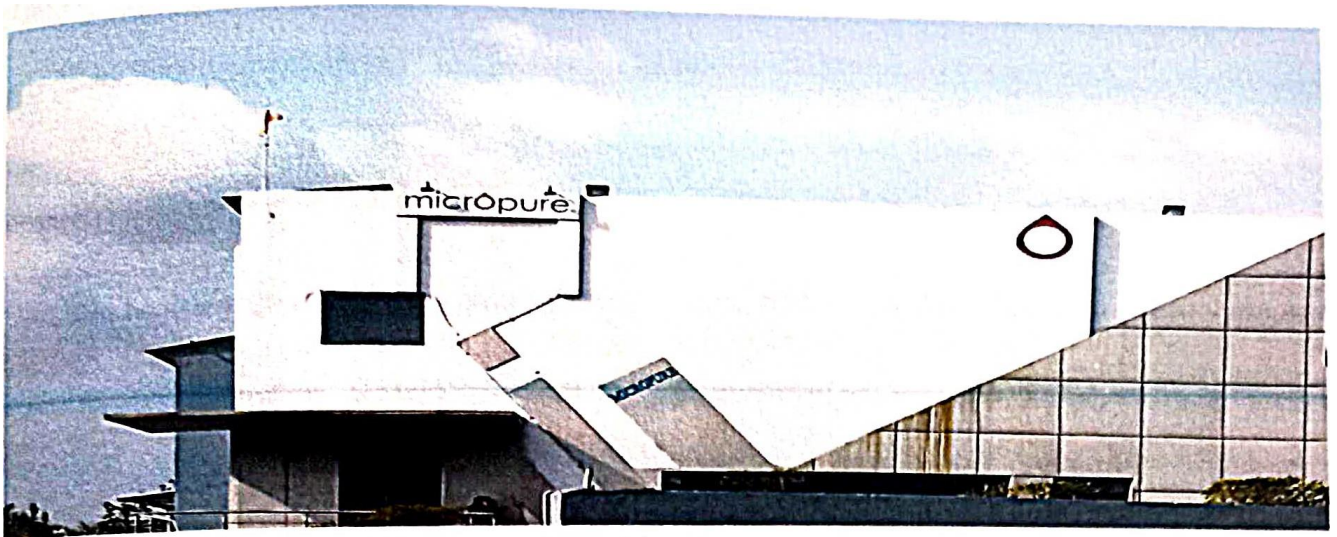
I convey my heartiest thanks to all executive members and managers in all departments for their most valuable suggestions, constant encouragement and affectionate guidance during the period of this training.

I am greatly thankful to all my seniors and colleagues in Micropure Parenterals for extending their constant cooperation which went a long way towards the completion of this training and report.



  
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## About Micro pure Parenteral :

Location: Plot No. 136

Village- Nehroli, Taluka — wada,

■ District- Palghar, Maharashtra

■ Pin Code - 421312

Micropure journey began in 1997 as a private ltd company in the manufacturing of small a liquid and dry powder injectable. In 2009, a separate manufacturing unit for Cephalosporin injectable has been commissioned as per Schedule M C GMP norms and is certified as per WHO GMP guidelines. Today Micropure is known as a renowned contract manufacturing facility for leading pharmaceutical companies for domestic and export markets. The continuous improvement in the area of productivity, quality consciousness and customer satisfaction is the goal of company.

Micro pure has world-class system. The process from washing to sterilization and filling is achieved without human contact. Micro pure continually seek way to maintain and where exceed global standards. Micropure is to be an example for sustainable business, environmental practices. Production of world-class standard pharmaceuticals must work hand-in-hand with ethical



practices, local community engagement and minimal impact on the environment.

## Layout:

Area maintenance in sterile manufacturing is a difficult task because most of the areas in sterile manufacturing are of a higher grade than oral manufacturing . The material is transferred through pass box to avoid the generation of contamination . Pass boxes should have an interlocking system to avoid the simultaneous opening of the door.

Higher grade area must have higher pressure to avoid the entrance of the contamination through the opening and the doors. For instance, if two rooms of Grade C and Grade B have a door between them then Grade B room should have at least 10mm Hg higher pressure than Grand C room. All doors should open to higher pressure to avoid the leakage of pressure from the area .Change rooms are used for gowning . Previously sterilized gowns are kept in changerooms in sterile cabinet having UV light. Hand sanitizer should be applied in the change rooms to avoid the contamination.

He-aw metal test

Chloride test

Residue on evaporation

Total organic carbon test

Total microbial count

  
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## steps involved in the processing of Parenteral Preparations:

1. Cleaning of containers, closures and equipment's.

2. Collection of materials.
3. Preparation of parenteral products.
4. Filtration.
5. Filling the preparation in final container.
6. Sealing the container.
7. Visual inspection
8. Evaluation of the parenteral preparation.
9. Labelling and packaging

### Cleaning of containers, closures and equipment's:

Containers and equipment coming in contact with parenteral preparations must be cleaned meticulously. It should be obvious that even new, unused containers and equipment are contaminated with such debris as dust, fibre, chemical films, and other materials arising from such sources as the atmosphere, cartons, the manufacturing process, and human hands. Residues from previous use must be removed from used equipment, before it is suitable for reuse. Equipment should be reserved exclusively for use only with parenteral preparations and, where conditions dictate, only for one product to reduce the risk of contamination. A variety of machines are available for cleaning new containers for parenteral products—Linear washing machine, vial washing machine, Jet Ampoule washing machine.



Containers embody the proper principles, but varies in machinery available for cleaning containers by which it is accomplished. In one manual loading type, the jet tubes are fixed on arms like the spokes of a wheel, which rotate around a centre post through which the treatments are introduced. An operator places the unclean containers on the jet

Tubes, as they pass the loading point, and removes the clean containers as they complete one

A continuous automated line operation, capable of cleaning hundreds of containers per hour.

The vials are fed into the rotary riser in the foreground, transferred automatically to the covered sterilizing tunnel in the centre, conveyed through the wall in the background, and discharged into the filling clean room.

### Vial Washin<sup>o</sup> Machine :

Rotary vial washing machine is designed to wash internal and external surface of vials in continuous rotary motion. Vials are held by grippers which will invert its position to allow

servo driven nozzles moving vertically in order to wash vials from the inside. It has 6 washing stations covered in dome, providing three types of internal water washes such as Recycled Water Wash, Purified Water Wash & WFI wash and three air washes where as to clean external surface it has one water and air wash controlled by PLC. The design of machine is compact and ensures a clear visibility of washing activity.



### Biosafety cabinet:

It is used in microbial inoculation and isolation studies as well as sterile storage of materials. In addition, it is utilised for protection of user, samples and the environment from hazardous contamination.



### Autoclave:

The main purpose of this device is to sterilized material and media under

### Refrigerator :

The device is used for the storage of the stock solutions, chemicals, kits and that should be maintained at certain temperature.

## Finished Goods Section :

- Finished goods are goods that have completed the manufacturing process but have not yet been sold or distributed to the end user
- A good purchased has a "Raw material" goes into the manufacturer of a product.
- A good only partially completed during the manufacturing process is called "work in progress"

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pressure.

## Conclusion

Industrial training is very much essential for Pharmacy Students. It is also a great OPPOrtunityto acquire practical knowledge. During my training period, in the industry I acquired lots of experiences in Pharmaceutical Production and Production management.

This help me to clarify my theory knowledge. I hope and pray that it will help me much in my future profession.


training period, we had seen the various instruments and apparatus in the highly sophisticated instruments that work precisely must be operated in The tense care for optimum use. We could acquire a lot of information regarding instruments and their working procedures.

\*is taught to us that, the CGMP guidelines are to be strictly followed in the industries in and every section. And the similar guideline was seen followed in Micropure .penterals Pvt. Ltd. It helped us to acquire knowledge on punctuality , regularity and orking environment in industries.

d working environment in Micropure Parenterals Pvt. Ltd will remain in our mind I near future. Hence, we can say that our goal of attending the industrial tour if fulfilled. I ±nowledge the great help 't Micropure Parenterals Pvt Ltd.

  
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Roll no: 29

Page No.

Date

2/11/2023

Names: Samruddhi Kamalakar Patil.  
Roll NO: - 11g.

Date

Page

## Industrial Pharmacy - I

- Q.1) Describe the Mfg process of tablets.
- 2) Explain raw materials used for capsule shell.
- 3) Enlist types of capsul shell.
- 4) Explain the formulation of pellets.

Q.1) i) wet granulation ii) Dry granulation iii) Direct-compr.

⇒ Manufacturing process of tablets :-

weighing i) Raw material choice :- Good quality raw material is choose to make a tablet. like main drug & other some additives

weight verification  
ii) Mixing :

In this process mixing of drug & other additives are mix properly together with the help of Mixer.

iii) Sieving :

Sieved the mixed drug through sieve with vibration for same sized drug to get. same size is needed for proper binding.

iv) Binding :-

sieved material bind together & form a moist thick mass for formation of granules.

v) Granulation :- Make a granules of bulk mass.

vi) drying :-

In this process granules are dried in drying Machines.

proper drying is need for punching of



vi) Punching /pressing /compressed :-  
punch the granules in tablet punching machine with suitable weight or pressure & form the shape of tablets like a circle oval etc.

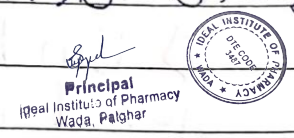
vii) colouring: /coating  
To coat the unpleasant taste & smell tablet are coated with colour.  
It also protect tablet from moist & other conditions.

viii) Polishing :-  
It is needed to give shine to tablet & to make attractive & smooth.

ix) Rechecking: - /Defect Find :-  
The prepared tablets are again checked for next process packing. If any defect are found remove it.

x) Stripping (packing) / Labelling.  
prepared & checked tablets are packed in strips with proper in this stage  
~~labelling~~ labelling is also done.

xi) Final packaging :-  
Strip's are packed in boxes to sell in market.  
Before it, the test's are done.



Name :- Farid N. Khan.

- Q-1) Describe the manufacturing process of tablet.  
 Q-2) Explain raw materials used for capsule shell.  
 Q-3) Enlist type of capsules shell.  
 Q-4) Explain the formulation of pellets.

Answers:-

→ 1) Manufacturing process of Tablet.

- There are 3 types :-

- i) Dry Granulation method :- It takes place in absence of water.
- ii) Wet Granulation method :- It takes place in presence of water.
- iii) Direct Granulation method :-

-- Quality Control Test :- It is to check the purity of given drug (tablets).

- There are few factors which needs to be checked in the manufacturing of tablets are as follows :-

- a) PH
- b) Weight variation.
- c) Dissolution test
- d) Friability Test.
- e) Appearance.

- After this, we pack the drug.

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Capsules are the form of oral drug which is a solid dosage form.

Capsules shell are of two types.

### Capsules shell.

↓  
Hard gelatin capsules

↓  
These are made up of hard substance (i.e. ~~gelatin~~ gelatin)

- Ex :- Anoxillin.

↓  
Soft gelatin capsules.

↓  
These are made up of soft substance (i.e. rice soft gelatin)

- Ex :- Vitamin capsule

2

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## Teaching plan

Sr. No.	UNIT	Topics Plan	Mode of teaching (Chalk & Talk/PPT)	Planned Date	Actual Date	CO MAPPING
1	UNIT-1	Introduction to preformulation, goals and objectives	Chalk & talk			1
2	1.1	Study physicochemical characteristics of drug substances	Chalk & talk			1
3		Physical properties: Physical form (crystal & amorphous), particle size	Chalk & talk			1
4	1.1	liquid orals, semi solids and relevant documentation,.	Chalk & talk			1
5		shape, flow properties, solubility profile (pKa), pH, partition coefficient), polymorphism	Chalk & talk			1
6	1.1	Chemical Properties: Hydrolysis, oxidation, reduction	Chalk & talk			1
7		Polymerization BCS classification of drugs	Chalk & talk			1
8	1.1	Application of preformulation considerations in the development of solid, liquid oral and parenteral dosage forms	Chalk & talk			2

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		and its impact on stability of dosageforms.				
7	UNIT-2	<b>Tablets</b> Introduction, ideal characteristics of tablets, classification of tablets	Chalk & talk			2
8	2.1	Excipients, Formulation of tablets, granulation methods	Chalk & talk			2
9		, compression and processing problems. Equipments and tablet tooling.	Chalk & talk			2
10	2.1	Tablet coating: Types of coating, coating materials	Chalk & talk			2
11	2.1	formulation of coating composition, methods of coating, equipment employed and defects in coating.	Chalk & talk			2
12	2.2	Liquid orals: Formulation and manufacturing consideration of solutions				
14	2.2	suspensions and emulsions; Filling and packaging; evaluation of liquid orals official in pharmacopoeia				
15	2.2	.Quality control tests: In process and finished product tests				
16	UNIT 3	Hard gelatin capsules: Introduction, Extraction of gelatin and production of hard gelatin capsule shells	Chalk & talk			2
17	3.1	size of capsules, Filling, finishing and special techniques of formulation of hard gelatin capsules	Chalk & talk		Principal Ideal Institute of Pharmacy Wada, Palghar	2
18	3.1	In process and final product quality control tests for capsules.	Chalk & talk			2
15	3.2	<b>Soft gelatin capsules:</b> Nature of shell and	Chalk &			2

		capsule content,sizeof capsules	talk			
16		<b>Pellets:</b> Introduction, formulation requirements	Chalk & talk			2
		Pelletization process, equipments for manufacture of pellets				3
17		Definition, types, advantages and limitations. Preformulation factors and essential requirements,	Chalk & talk			2
18		vehicles, additives, importance of isotonicity	Chalk & talk			1
19		Production procedure, production facilities and controls.	Chalk & talk			1
20		Formulation of injections, sterile powders, emulsions, suspensions, large volume parenterals and lyophilized products, Sterilization.	Chalk & talk			1
21		Containers and closures selection, filling and sealing of ampoules, vials and infusion fluids. Quality control tests	Chalk & talk			1
22		Ophthalmic Preparations: Introduction, formulation considerations	Chalk & talk			1
23		formulation of eyedrops, eye ointments and eye lotions; methods of preparation	Chalk & talk		Principal Ideal Institute of Pharmacy Wada, Palghar	
24		; labeling, containers; evaluation of ophthalmic preparations	Chalk & talk			2
25		Cosmetics: Formulation ,preparation of the	Chalk &			3

		following cosmetic preparations:lipsticks, shampoos, cold cream and vanishing cream, tooth pastes,	talk			
26		hair dyes and sunscreens	Chalk & talk			3
27		<b>Pharmaceutical Aerosols:</b> Definition, propellants, containers, valves, types of aerosol systems;	Chalk & talk			3
						3
28	<b>UNIT-4</b>	formulation and manufacture of aerosols; Evaluation of aerosols; Quality control and stability studies	Chalk & talk			4
29		<b>Packaging Materials Science:</b> Materials used for packaging of pharmaceutical products	Chalk & talk			4
30		factors influencing choice of containers, legal and official requirements for containers	Chalk & talk			4
31		stability aspects of packaging materials, quality control tests	Chalk & talk			4
32			Chalk & talk		 Principal Ideal Institute of Pharmacy Wada, Palghar	



  
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**1.1.2 The institution adheres to the academic calendar including for the conduct of CIE Response:**

S.N	PARTICULARS	PAGE NO
1	LAST FIVE YEARS ACADEMIC CALENDER	9-19
2	SESSIONAL AND PRACTICAL TIME TABLE	
3	THEORY EXAM TT	
4	SPORT WEEK	
5	ANNUAL FUNCTION WEEK	

## **ACADEMIC CALENDER FOR THE ACADEMIC YEAR 2018-19**

**(For Semester I, III and V)**

  
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**List of holidays:** The schedule given below may change as per the circulars from Govt. of Maharashtra, MU, District Collector and Director/ Principal of the College

Date	Holidays
15/08	Independence Day
17/08	Parsi New Year
22/08	Bakri Id
13/09	Ganesh Chaturthi

Registration in the Respective Department	7 and 8 th July
Commencement of the lectures	F.Y. – 16 Aug
	S.Y. and T.Y. – 9 July
Mid Semester Test	F.Y. – 12-16 Nov
	S.Y. – 22- 26 Oct
	T.Y. – 22- 29 Oct
Mid Semester Theory Exam	F.Y. – 12-16 Nov
	S.Y. – 22- 26 Oct
	T.Y. – 22- 29 Oct
Mid Semester Practical Exam	F.Y. – 29- 31 Oct
	S.Y. – 15- 19 Oct
	T.Y. – 15- 19 Oct
Mid Semester Test Result Display	12 Nov
End Semester Theory Exam	F.Y. – 11-24 Dec
	S.Y. – 10-19 Dec
	T.Y. – 22 Nov – 5 Dec
End Semester Practical Exam	F.Y. – 26-28 Dec
	S.Y. – 27-29 Dec
	T.Y. – 07-10 Dec
End Semester Result	
20/09	Mohram
02/10	M. Gandhi Jayanti
18/10	Dashera
07/11 to 10/11	Diwali Vaccation
20/11	Id-A-Milad
23/11	Guru-Nanak Jayanti
25/12	Chritsmas

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## ACADEMIC CALENDER FOR ACADEMIC YEAR 2019-20


### B. Pharmacy

Sr. No.	Date	Days/Events/Celebration	Responsible Staff
1	09/07/2019	II,III &IV year academic starts	All staff
2	Last week of august	1 <sup>st</sup> year orientation	All Staff
3	First week of September	Freshers Day	All Staff
4	5/09/19	Teacher's Day	Mr.Premprasad kushwaha,Mr Tanavir singh Rajput,Ms.Swapnali Vekhande
5	25/09/19	World Pharmacist Day	All Staff
6	Last week of Sep 19	Sessional Examination of III &IV Year	All Staff
7	First week of Oct 2019	Expert lecture: 1. Academic Expert 2. Industrial Expert 3. Entrepreneurship	All Staff
8	Last Week of Oct 19	Sessional Examination of I & II Year Main end semester Practical Examination Mumbai University	All Staff
9	Last week of Nov 2019	II Sessional examinations	I year teaching faculties
10	First week of Dec 2019	Final end semester practical examinations II &I year	I &II year teaching faculties
11	Mid week of Dec 2019	Industrial tour and IPC	Mr Tanavir singh Rajput
12	First week of Jan 2020	Commencement of classes of III&IV year	III &IV Year students
13	Last week of Jan	Sports week	Mr Mithlesh Narware
14	First week of Feb	Annual Day	Ms. Shweta Patil, Mrs Mayuri Bhoir
15	First week of Feb 2020	Commencement of classes of I &II year	I &II year teaching faculties
16	Mid week of Mar 2020	Sessional Examination First sessional of I Year	All staff
17	First week of Apr 2020	End semester practical examination	All staff
18	First week of	Final examination of even semester	All staff

	May 2020		
19	Mid week of May 2020	Final examinations of I & II Year	All staff

**ACADEMIC CALENDER FOR ACADEMIC YEAR 2021-22**

**B. Pharmacy**

<b>Sr. No.</b>	<b>Date</b>	<b>Days/Events/Celebration</b>	<b>Responsible Staff</b>
1	07/08/2021	II,III &IV year academic starts	All staff
2	5/09/2021	Teacher's Day	Mr. Dileep Bharti, Ms. Dipti Chirmade, Mr.Mithilesh Kumar Narware
3	25/09/21	World Pharmacist Day	All Staff
4	Last week of Sept 2021	First Sessional Examination of III,IV Year	All Staff
5	Second week of Oct 2021	Expert lecture: 1. Academic Expert 2. Industrial Expert 3. Entrepreneurship	All Staff
6	Mid-Week of Oct 2021  From 1 Nov-8 Nov 2021	Sessional Examination of II Year  Diwali Vacation	All Staff
7	Meed-Week of Nov 2021	End Semester Examination IV year Mumbai University	All Staff
8	Last week of Nov 2021	Second Sessional examinations of (Theory +Practical) Of IIIrd Year	I year teaching faculties
9	Second week of Dec 2021	Final end semester Theory examinations of II ,III year	All Staff
10	last week of Dec. 2021	1 <sup>st</sup> year orientation	All Staff  Principal Ideal Institute of Pharmacy Wada, Palghar 
10	First week of January 2021	Final end semester Practical examinations of II, III & IV year	Ms. Mayuri Bhoir
11	Second week of Jan 2022	Commencement of classes of II year	II Year students

12	From 15 Jan-15 Feb 2022	Industrial training IV Year students	IV Year Students
13	First week of Jan 2022	1 <sup>st</sup> year orientation	All Staff
14	Second week of Feb 2022	Commencement of classes of III & IV year	III & IV year teaching faculties
15	First week of Feb 2022	Sessional Examination First sessional of I & II Year	All staff
16	Last week of Feb	First Sessional of III year and IV year	I year teaching Faculties

  
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	First Week Of March	Second Sessional examination I & II year	All staff
17	Last - week of March 2022	Final examination of first semester	All staff
18	Mid- week of April 2022	Second Sessional examination of III Year	All staff
19	Mid-week of May 2022	Final examinations of III & IV Year	All staff

**ACADEMIC CALENDER FOR ACADEMIC YEAR 2022-23**


B. Pharmacy

Sr. No.	Date	Days/Events/Celebration	Responsible Staff
1	01/07/2022	I,II,III ,V and VII SEM academic starts	All staff
2	5/09/2022	Teacher's Day	Mr. Dileep Bharti, Ms. Dipti Chirmade, Mr.Mithilesh Kumar Narware
3	25/09/2022	World Pharmacist Day	All Staff
4	Last week of Sept 2022	First Sessional Examination of III,V Year	All Staff
5	Second week of Oct 2022	Expert lecture: 1. Academic Expert 4. Industrial Expert 5. Entrepreneurship	All Staff
6	First Week of Oct 2022  Last week of october	Sessional Examination of II Year  Diwali Vacation	All Staff
7	Meed-Week of Nov 2022	End Semester Examination V year Mumbai University	All Staff  Principal Ideal Institute of Pharmacy Wada, Palghar
8	Last week of Nov 2022	Second Sessional examinations of (Theory +Practical) Of IIIrd Year	I year teaching faculties
9	Second week of Dec 2022	Final end semester Theory examinations of II ,III year	All Staff

10	last week of Dec. 2022	1 <sup>st</sup> year orientation	All Staff
10	First week of January 2023	Final end semester Practical examinations of II, III & IV year	Ms. Mayuri Bhoir
11	Second week of Jan 2023	Commencement of classes of II year	II Year students
12	From 15 Jan-15 Feb 2023	Industrial training IV Year students	IV Year Students
13	First week of Jan 2023	1 <sup>st</sup> year orientation	All Staff
14	Second week of Feb 2023	Commencement of classes of III & IV year	III & IV year teaching faculties
15	First week of Feb 2023	Sessional Examination First sessional of I & II Year	All staff
16	Last week of Feb	First Sessional of III year and IV year	I year teaching Faculties
	First Week Of March	Second Sessional examination I & II year	All staff
17	Last -week of March 2023	Final examination of first semester	All staff
18	Mid-week of April 2023	Second Sessional examination of III Year	All staff
19	Mid-week of May 2023	Final examinations of III & IV Year	All staff

Calender For Academic Year 2023-24

B. Pharmacy

  
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 Ideal Institute of Pharmacy  
 Wada, Palghar




Sr. No.	Date	Days/Events/Celebration	Responsible Staff
1	01/07/2023	III ,V & VII Academic Starts	All Staff




3	05/08/2023	Convocation Ceromony Of Bath 2018-2022	Dr. Sonali Uppalwar,Mr Lokesh Vyas ,Mrs Sharmila Wagh
4	10/08/2023	Tree plantation ceremony	Dr. Sonali Uppalwar,Mr Lokesh Vyas ,Mrs Sharmila Wagh
5	11/08/2023	Guru pournima celebration	All Staff
6	12/08/2023	Library day celebration	All Staff
7	15/08/2023	Independence day celebration	All Staff
3	24/08/2023 To 31/08/2023	First Sessional Examination Of V & Vii Sem	All Staff
3	01/09/2023	Regular Academics	All Staff
4	5/09/2023	Teacher's Day	Dr. Sonali Uppalwar, Mr Lokesh Kumar Vyas, Mrs Mayuri Bhoir
5-	19/09/2023 to 22/09/2023	Ganapati vacation	--
6	25/09/23	World Pharmacist Day	All Staff
7	07/10/2023	Orientation day	All Staff
8	10/10/2023	Meri maati mera desh	All Staff
9	9/10/2023 To 12/10/2023	Second Sessional Examination Of Vi Sem Year	All Staff
10	18/10/2023	Freshers day	All staff
11	19/10/2023	Navratri day	All staff
12	20/10/2023 to 22/10/2023	National conference	
13	25/10/2023 To 30/10/2023	First Sessional Examination Of Iii Sem	All Staff
14	01/11/2023 To 9/11/2023	End Semester Examination Vii Sem	All Staff

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Ideal Institute of Pharmacy  
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15	10/11/2023 to 18/11/2023	Diwali vacations	All staff
16	20/11/2023 To 25/11/2023	First Sessional Exam Of I Sem And Second Sessional Exam Of V Sem	All Staff
17	04/12/2023 To 07/12/2023	Second Sessional Of Iii Sem	All Staff
18	28/11/2023 To 11/12/2023	End Semester Examination V Sem	All Staff
19	15/12/2023 To 22/12/2023	End Semester Examination Iii Sem	All Staff
20	18/12/2023 To 26/12/2023	Second Sessional Of I Sem	All Staff
21	02/01/2024 To 12/01/2024	End Semester Examination Isem	I Year Teaching Faculties
22	13/01/2024 To 21/01/2024	Days celebration	All Staff

  
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**ACADEMIC CALENDER FOR ACADEMIC YEAR 2019-20**



**B. Pharmacy**

Sr. No.	Date	Days/Events/Celebration	Responsible Staff
1	09/07/2019	II,III &IV year academic starts	All staff
2	Last week of august	1 <sup>st</sup> year orientation	All Staff
3	First week of September	Freshers Day	All Staff
4	5/09/19	Teacher's Day	Mr.Premprasad kushwaha,Mr Tanavir singh Rajput,Ms.Swapnali Vekhande
5	25/09/19	World Pharmacist Day	All Staff
6	Last week of Sep 19	Sessional Examination of III &IV Year	All Staff
7	First week of Oct 2019	Expert lecture: 1. Academic Expert 2. Industrial Expert 3. Entrepreneurship	All Staff
8	Last Week of Oct 19	Sessional Examination of I & II Year Main end semester Practical Examination Mumbai University	All Staff
9	Last week of Nov 2019	II Sessional examinations	I year teaching faculties
10	First week of Dec 2019	Final end semester practical examinations II &I year	I &II year teaching faculties
11	Mid week of Dec 2019	Industrial tour and IPC	Mr Tanavir singh Rajput  Principal Ideal Institute of Pharmacy
12	First week of Jan 2020	Commencement of classes of III&IV year	III &IV Year students 
13	Last week of Jan	Sports week	Mr Mithlesh Narware
14	First week of Feb	Annual Day	Ms. Shweta Patil,Mrs Mayuri Bhoir
15	First week of Feb 2020	Commencement of classes of I &II year	I &II year teaching faculties

16	Mid week of Mar 2020	Sessional Examination First sessional of I Year	All staff
17	First week of Apr 2020	End semester practical examination	All staff
18	First week of May 2020	Final examination of even semester	All staff
19	Mid week of May 2020	Final examinations of I & II Year	All staff

**ACADEMIC CALENDER FOR ACADEMIC YEAR 2021-22**

**B. Pharmacy**

<b>Sr. No.</b>	<b>Date</b>	<b>Days/Events/Celebration</b>	<b>Responsible Staff</b>
1	07/08/2021	II,III &IV year academic starts	All staff
2	5/09/2021	Teacher's Day	Mr. Dileep Bharti, Ms. Dipti Chirmade, Mr.Mithilesh Kumar Narware
3	25/09/21	World Pharmacist Day	All Staff
4	Last week of Sept 2021	First Sessional Examination of III,IV Year	All Staff
5	Second week of Oct 2021	Expert lecture: 1. Academic Expert 6. Industrial Expert 7. Entrepreneurship	All Staff
6	Mid-Week of Oct 2021  From 1 Nov-8 Nov 2021	Sessional Examination of II Year  Diwali Vacation	All Staff
7	Meed-Week of Nov 2021	End Semester Examination IV year Mumbai University	All Staff
8	Last week of Nov 2021	Second Sessional examinations of (Theory +Practical) Of IIIrd Year	I year teaching faculties
9	Second week of Dec 2021	Final end semester Theory examinations of II ,III year	All Staff  Principal Ideal Institute of Pharmacy Wada, Palghar 
10	last week of Dec. 2021	1 <sup>st</sup> year orientation	All Staff

10	First week of January 2021	Final end semester Practical examinations of II, III & IV year	Ms. Mayuri Bhoir
11	Second week of Jan 2022	Commencement of classes of II year	II Year students
12	From 15 Jan-15 Feb 2022	Industrial training IV Year students	IV Year Students
13	First week of Jan 2022	1 <sup>st</sup> year orientation	All Staff
14	Second week of Feb 2022	Commencement of classes of III & IV year	III & IV year teaching faculties
15	First week of Feb 2022	Sessional Examination First sessional of I & II Year	All staff
16	Last week of Feb	First Sessional of III year and IV year	I year teaching Faculties
	First Week Of March	Second Sessional examination I & II year	All staff
17	Last - week of March 2022	Final examination of first semester	All staff
18	Mid- week of April 2022	Second Sessional examination of III Year	All staff
19	Mid-week of May 2022	Final examinations of III & IV Year	All staff

  
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**ACADEMIC CALENDER FOR ACADEMIC YEAR 2022-23**



**B. Pharmacy**

<b>Sr. No.</b>	<b>Date</b>	<b>Days/Events/Celebration</b>	<b>Responsible Staff</b>
1	01/07/2022	I,II,III ,V and VII SEM academic starts	All staff
2	5/09/2022	Teacher's Day	Mr. Dileep Bharti, Ms. Dipti Chirmade, Mr.Mithilesh Kumar Narware
3	25/09/2022	World Pharmacist Day	All Staff
4	Last week of Sept 2022	First Sessional Examination of III,V Year	All Staff
5	Second week of Oct 2022	Expert lecture: 1. Academic Expert 8. Industrial Expert 9. Entrepreneurship	All Staff
6	First Week of Oct 2022  Last week of october	Sessional Examination of II Year  Diwali Vacation	All Staff
7	Meed-Week of Nov 2022	End Semester Examination V year Mumbai University	All Staff
8	Last week of Nov 2022	Second Sessional examinations of (Theory +Practical) Of IIIrd Year	I year teaching faculties
9	Second week of Dec 2022	Final end semester Theory examinations of II ,III year	All Staff
10	last week of Dec. 2022	1 <sup>st</sup> year orientation	All Staff
10	First week of January 2023	Final end semester Practical examinations of II, III & IV year	Ms. Mayuri Bhoir
11	Second week of Jan 2023	Commencement of classes of II year	II Year students Principal Wade, Patghar
12	From 15 Jan-15 Feb 2023	Industrial training IV Year students	IV Year Students
13	First week of Jan 2023	1 <sup>st</sup> year orientation	All Staff
14	Second week of Feb 2023	Commencement of classes of III &IV year	III &IV year teaching faculties

15	First week of Feb 2023	Sessional Examination First sessional of I & II Year	All staff
16	Last week of Feb	First Sessional of III year and IV year	I year teaching Faculties
	First Week Of March	Second Sessional examination I & II year	All staff
17	Last -week of March 2023	Final examination of first semester	All staff
18	Mid-week of April 2023	Second Sessional examination of III Year	All staff
19	Mid-week of May 2023	Final examinations of III & IV Year	All staff

Calender For Academic Year 2023-24

B. Pharmacy

Sr. No.	Date	Days/Events/Celebration	Responsible Staff
1	01/07/2023	III ,V &VII Academic Starts	All Staff
3	05/08/2023	Convocation Ceromony Of Bath 2018-2022	Dr. Sonali Uppalwar,Mr Lokesh Vyas ,Mrs Sharmila Wagh
4	10/08/2023	Tree plantation ceremony	Dr. Sonali Uppalwar,Mr Lokesh Vyas ,Mrs Sharmila Wagh
5	11/08/2023	Guru pournima celebration	All Staff  Principal Ideal Institute of Pharmacy Wada, Palghar 
6	12/08/2023	Library day celebration	All Staff
7	15/08/2023	Independence day celebration	All Staff

3	24/08/2023 To 31/08/2023	First Sessional Examination Of V & Vii Sem	All Staff
3	01/09/2023	Regular Academics	All Staff
4	5/09/2023	Teacher's Day	Dr. Sonali Uppalwar, Mr Lokesh Kumar Vyas, Mrs Mayuri Bhoir
5-	19/09/2023 to 22/09/2023	Ganapati vacation	--
6	25/09/23	World Pharmacist Day	All Staff
7	07/10/2023	Orientation day	All Staff
8	10/10/2023	Meri maati mera desh	All Staff
9	9/10/2023 To 12/10/2023	Second Sessional Examination Of Vi Sem Year	All Staff
10	18/10/2023	Freshers day	All staff
11	19/10/2023	Navratri day	All staff
12	20/10/2023 to 22/10/2023	National conference	
13	25/10/2023 To 30/10/2023	First Sessional Examination Of Iii Sem	All Staff
14	01/11/2023 To 9/11/2023	End Semester Examination Vii Sem	All Staff
15	10/11/2023 to 18/11/2023	Diwali vacations	All staff
16	20/11/2023 To 25/11/2023	First Sessional Exam Of I Sem And Second Sessional Exam Of V Sem	All Staff
17	04/12/2023 To 07/12/2023	Second Sessional Of Iii Sem	All Staff Principal Ideal Institute of Pharmacy Wada, Palghar
18	28/11/2023 To 11/12/2023	End Semester Examination V Sem	All Staff



19	15/12/2023 To 22/12/2023	End Semester Examination Iii Sem	All Staff
20	18/12/2023 To 26/12/2023	Second Sessional Of I Sem	All Staff
21	02/01/2024 To 12/01/2024	End Semester Examination Isem	I Year Teaching Faculties
22	13/01/2024 To 21/01/2024	Days celebration	All Staff

  
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### **1.1.2 The institution adheres to the academic calendar including for the conduct of CIE Response:**

#### **Response:**

Keeping in reference the academic calendar issued by affiliating University Rajiv Gandhi Proudyogiki vishwavidalaya, Bhopal, the academic committee consisting of Principal, Academic in-charge, senior faculty and centre superintendent prepares a detailed calendar for effective planning and implementation of curriculum every year, the calendar displays the dates of commencement of academic year, mid semester examination, end of teaching, tentative end semester examination dates along with events schedule to be held at that particular session. The calendar outlines the semester-wise class work schedule, list of holidays, internal examination schedule, events dates like pharmacy day, pharmacy week, induction week, sports and cultural. To ensure efficient conduct of regular classes, the students are made aware of exam dates well in advance before the commencement of the semester through notice board and College website. The subject teachers discuss the structure of question paper and examination pattern in their regular classes and also discuss with students the framework of answer if a particular question comes in the internal examinations. The internal examinations are conducted regularly in accordance to academic calendar and the valuation of answer copies are done at the earliest and the valuated copies are shown to the students for transparency in the evaluating system. The continuous assessment and evaluation help to improve the quality to ensure that the student meets up with the prerequisites expected for a graduate. The semester-wise schedules of internal examinations are prepared by the head of exam department in consideration with academic calendar. As per PCI pattern 2017, continuous mode internal assessment for each theory subjects are conducted which includes attendance, academic activities and student-teacher interaction. In academic activities quiz's or assignments, viva voce, are conducted and marks from this continuous mode are added in midterm marks. On the basis of syllabus decided by the subject in-charge for the sessional examination the subject teacher's are instructed to set the question paper in two sets A and B with no question or part thereof should be outside the prescribed syllabus, on the day of examination the sets along with set A and set B marked answer copies are distributed randomly so as to maintain the secrecy of the paper this also help to cover entire syllabus more effectively. The marks scored by the students in midterm examination are entered in the midterm examination marks register thus making the process robust and transparent. The marks obtained by students in internal

examination are uploaded to the RGPV portal. Every year depending upon academic calendar at the end of the semester 15 to 20 days break is given during this break students are encouraged to do the industrial/ hospital/ or practice in a medical shop and get a training certificate which can be useful for their placements.

  
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# Sessional Time Table

## IDEAL INSTITUTE OF PHARAMCY, WADA

B.PHARMACY (V SEMESTER)

First Sessional Exam Time -Table

Date: 17/08/2023

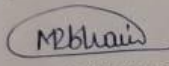
All the students of B.Pharm Vth semester are hereby informed that the Sessional Exam ( Theory & Practical) will be scheduled from 24/08/2023 to 31/08/2023 by offline mode. The time table is given below for theory and practical exams.

### Sessional Exam Time-Table (Theory & Practical)

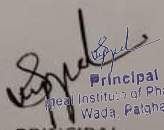
DATE	DAY	SEMESTER	THEORY (Subject & Subject code) TIME : 10:30AM TO 11:30AM	Subject In-Charge	PRACTICAL TIME : 1:00PM TO 5:00PM
24/08/2023	Thursday	V SEM	Medicinal Chemistry _II(BP501T)	BM	IP- Batch A Cology Batch B Cognosy Batch C
25/08/2023	Friday	V SEM	Industrial Pharmacy_I(BP502T)	SW	Cology Batch A Cognosy Batch B IP - Batch C
28/08/2023	Monday	V SEM	Pharmacology- II(BP503T)	A	Cognosy - Batch A IP- Batch B Cology Batch C
29/08/2023	Tuesday	V SEM	Pharmacognosy & Phytochemistry II (BP504T)	LKV	NA
31/08/2023	Thursday	V SEM	Pharmaceutical Jurisprudence (BP505T)	SS	NA

**Mark Scheme-Theory Sessional:**30 Marks (Question-1: 10Marks (1x10);Question-2: 10 Marks (2x5); Question-3:10Marks(1x10)

**Practical Sessional :** 40Marks (Synopsis-10; Experiment 20(Major Exp.12M,Minor Exp.08M) & Viva- voce-10M

  
EXAM IN-CHARGE



  
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Dist - Palghar Maharashtra 421303



# IDEAL INSTITUTE OF PHARMACY, WADA

B.PHARMACY (VI SEMESTER)

Second Sessional Exam Time -Table

Date: 17/04/2023

All the students of B.Pharm VIth semester are hereby informed that the Sessional Exam ( Theory & Practical) will be scheduled from 24/04/2023 to 28/04/2023 by offline mode.

The time table is given below for theory and practical exams.

Sessional Exam Time-Table (Theory & Practical)

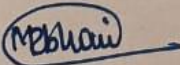
DATE	DAY	SEMESTER	THEORY (Subject & Subject code) TIME : 10:30AM TO 11:30AM	Subject In-Charge	PRACTICAL TIME : 1:00PM TO 5:00PM
24/04/2023	Monday	IV SEM	Pharmaceutical Organic Chemistry _III(BP401T)	MN	Medi-Chem Batch A PP_II Batch B Cology Batch C Cognosy Batch D
25/04/2023	Tuesday	IV SEM	Medicinal Chemistry _I(BP402T)	MN	Medi-Chem Batch B PP_II Batch C Cology Batch D Cognosy Batch A
26/04/2023	Wednesday	IV SEM	Physical Pharmaceutics II(BP403T)	SW	Medi-Chem Batch C PP_II Batch D Cology Batch A Cognosy Batch B
27/04/2023	Thursday	IV SEM	Pharmacology I (BP404T)	RB	Medi-Chem Batch D PP_II Batch A Cology Batch B Cognosy Batch B
28/04/2023	Friday	IV SEM	Pharmacognosy and Phytochemistry _I(BP405T)	LKV	NA

Mark Scheme-Theory Sessional:30 Marks (Question-1: 10Marks (1x10);Question-2: 10 Marks (2x5);

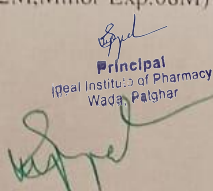
Question-3:10Marks(1x10)

Practical Sessional : 40Marks (Synopsis-10; Experiment 20(Major Exp.12M,Minor Exp.08M) &

Viva- voce-10M

  
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17/04/2023 12:06

IDEAL INSTITUTE OF PHARMACY POSHERI, WADA.  
 END SEMESTER PRACTICAL EXAMINATION  
 SECOND YEAR B.PHARM (May- 2023)  
 SEMESTER-IVth

Day	Date	Time	Program	Batch
Tuesday	23/05/2023	9:30 – 1:30Pm	First Half	Batch A – Medicinal Chemistry I Batch B – Physical pharmaceutics II Batch C- Pharmacology I Batch D- Pharmacognosy & Phytochemistry I
Wednesday	24/05/2023	9:30 – 1:30Pm	First Half	Batch A – Physical pharmaceutics II Batch B – Pharmacology I Batch C- Pharmacognosy & Phytochemistry I Batch D- Medicinal Chemistry I
Thursday	25/05/2023	9:30 – 1:30Pm	First Half	Batch A – Pharmacology I Batch B – Pharmacognosy & Phytochemistry I Batch C- Medicinal Chemistry I Batch D- Physical pharmaceutics II
Saturday	27/05/2023	9:30 – 1:30Pm	First Half	Batch A – Pharmacognosy & Phytochemistry I Batch B – Medicinal Chemistry I Batch C- Physical pharmaceutics II Batch D- Pharmacology I



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*MPBhuw*  
 Exam In-charge

*Suppal*  
 PRINCIPAL  
 Ideal Institute of Pharmacy  
 At-Post-Posheri, Wada, Palghar  
 Dist - Palghar Maharashtra 421303

05/05/2023 15:08



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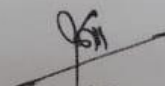
Winter 2023

EXAMINATION TIME TABLE  
PROGRAMME - T.Y. BACHELOR OF PHARMACY [Choice Based Credit System](R-2019)  
SEMESTER - V

Days and Dates	Time	Paper Code	Paper
Tuesday, November 28, 2023	10:30 a.m to 01:30 p.m.	66111	Medicinal Chemistry II
Thursday, November 30, 2023	10:30 a.m to 01:30 p.m.	66112	Industrial Pharmacy-I
Monday, December 04, 2023	10:30 a.m to 01:30 p.m.	66113	Pharmacology II
Friday, December 08, 2023	10:30 a.m to 01:30 p.m.	66114	Pharmacognosy & Phytochemistry II
Monday, December 11, 2023	02:30 p.m to 05:30 p.m.	66115	Pharmaceutical Jurisprudence

Important Note: •The candidates appearing for the examination should report 20 minutes before the start of examination.  
• Mobile phones and other electronic gazets are prohibited in the examination hall.  
• Change if any, in the time table shall be communicated on the university web site.

Mumbai - 400 098  
22<sup>nd</sup> September, 2023.

  
Dr. Prasad Karande  
I/c. Director

Board of Examinations & Evaluation



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## NOTICE

The Annual Sports Events Are To Be Held From 20 Jan.2023 To 02 Feb 2023 Interested Candidates Can Give Their Name Along With Entry Fees To Respective Event In-Charge Before 18 Jan 2023

Sr no	Event	Event in charge	Assistant in charge	Student volunteer	Participation
01	Cricket	Mr mithilesh narware	Mrs mayuri bhoir	Miss preeti chauhan	One team from each semester
02	Kabaddi	Mrs sharmila wagh	Mrs mayuri bhoir	Miss preeti aher	No limit
03	Badminton	Mrs sharmila wagh	Mrs mayuri bhoir	Miss preeti aher	No limit
04	Volley ball	Mr mithilesh narware	Mrs mayuri bhoir	Mr sarvesh wagh	No limit
05	Treasure hunt	Mrs ashwini waghachure	Mrs priyanka jadhav	Mr gaurav gupta	No limit
06	Tug of war	Mrs ruchita bhoir	Mrs mayuri bhoir	Mr jatinder gothrane	No limit
07	Ladies cricket	Mrs priyanka jadhav	Mrs ashwini waghachure	Miss nishata sankhe	One team from each semester
08	Nail art/salad competition	Mrs kavita jain	Ms Vinita yadav	Miss nishata sankhe	No limit
09	Carrom/mehendi	Ms Vinita yadav	Mrs sharmila wagh	Ms Samruddhi patil	No limit
10	Chess/rangoli	Ms Vinita yadav	Mrs sharmila wagh	Mr dixit prajapati	No limit
11	rangoli	Mrs mayuri bhoir	Mrs sharmila wagh	Sejal jadhav	No limit
12	Wall painting	Mr lokesh vyas	Mr mithilesh narware	Mr sarvesh wagh	No limit



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## Induction programme 2023

Sr no	Events	Time
1	Inauguration	10:00 -10:30 am
2	Introduction	10:30 -11:30 am
3	Saraswati vandana	11:30 -11:45 am
4.	Welcome speech by principal mam ( <b>Dr sonali uppalwar</b> )	11:45 -12:00 pm
5	Course curriculam and exam session explanation <b>Ms Vinita yadav and Mrs mayuri bhoir</b>	12:00-1:00PM
6	Guest lecture on human vules/medication	1:00-2:00PM
7	Scope of pharmacy by <b>Mr mithilesh kumar narware</b>	2:00-2:30 PM
8	Introduction to pharma industries and placement	2:30-3:00PM
9	Self introduction by students	3:00-3:30PM
10	Introduction to labs and library	3:30-4:00PM
11	Motivational speech	4:00-4:30PM
12	Vnational anthem and vote of thanks by <b>Mrs ashwini waghachaure</b>	4:30-4:45PM   Principal Ideal Institute of Pharmacy Wada, Palghar

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## NOTICE

The annual function **Rhythm** 2023 will be held on 02 February 2023. The brief schedule of the events is as follows:

Sr no	Date	Day	Time	Faculty in charge	Subject in charge
1	30-02-23	Retro day	10:30 to 1:30pm	Mr mithilesh kumar narware	Dixit paulsa, mihir bhoir, sahil gotarne, nishata sankhe
02	01-02-23	Traditional day	10:30 to 1:30pm	Mrs sharmila wagh	Mr ritesh gupta, sanika bhanusahli, dixit prajapati, tanvi patekar
03	02-02-23	Annual day	05:00pm onwards	-	-

ALL THE STUDENTS SHOULD ACTIVELY PARTICIPATE TO MAKE THE EVENT SUCCESSFUL

  
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## NOTICE

The incharge for annual function rhytum 2023 are as follows :

Sr no	Event	Faculty in charge
1	Anchoring and stage management	Mrs sharmila wagh Mr lokesh vyas Mr mithilesh kumar arware
2	Song, dance, other event sequence management	Mrs mayuri bhoir Mr Vinita yadav
3	Ramp walk	Mrs kavita jain Ms Vinita yadav
4	Play	Mr lokesh kumar vyas Mr mithilesh kumar narware

  
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## CULTURAL EVENTS AND REPORTS 2018-19

### List of Participants

### Annual Function, 2019

Sr No.	Event Name	Participants
1	Food Fest	Jadhav Priya Chaudhari Nitesh Chandane Mahesh Namde Vidya Patil Kriti Patel Khushboo Tare Rutik Thakare Ajinkya Nipurte Neha Bhere Nikita Bhoir Ketan Bhoir Priya
2	Singing	Patil Chirag Pawar Leena Pawar Arti Rathod Veghaji Chaudhari Pradnya Hatkar Vaishali
3	Ramp Walk	Rathod Ritik Patil Manali Yadav Pradeep Yadav Vivek Nipurte Neha Gupta Nisha Naik Rutik
4	Dance	Yadav Pritee Shedgr Mamta Gupta Vivek Daware Aditya Karale Manasi Gupta Rithik Bhor Kamini Patil Pranali

  
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		Patil Shweta Patil Dipesh Ghone Atharva Mali Manasi
5	Fancy Dress	Patil Shivani Patil Tejal Patil Julie Patil Hemashri Thakare Ankita Pal Ravi Patil Ravina Patil Priyanka Khushawah Sandhya Patil Akash

  
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## SPORTS EVENTS 2022-23

### List of Participants

### Sports Events, 2022-23

Sr No.	Event Name	Participants
1	Cricket	TEAM 1: FYBP TEAM 2: SYBP TEAM 3: TYBP TEAM 4: Final year BP TEAM 5: First Year Diploma Pharmacy TEAM 6: SecondYear Diploma Pharmacy
2	Kabaddi	TEAM 1: FYBP TEAM 2: SYBP TEAM 3: TYBP TEAM 4: Final year BP TEAM 5: First Year Diploma Pharmacy TEAM 6: SecondYear Diploma Pharmacy
3	Badminton	Purva Patil Roshan Patil Siya Patil Chaitanya Thakur
4	VolleyBall	TEAM 1: FYBP TEAM 2: SYBP TEAM 3: TYBP
5	Tresure hunt	TEAM 1: TYBP TEAM 2: Final year BP
6	Tug Of War	TEAM 1: FYBP TEAM 2: SYBP TEAM 3: TYBP TEAM 4: Final year BP
7	Ladies Cricket	TEAM 1: FYBP TEAM 2: First Year Diploma Pharmacy

  
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<b>8</b>	Nail art	Aditi Patil Sarvesh Patil Isha Gupta Chandan Saw
<b>9</b>	Carrom	Bhavika Patil Dikshit Prajapati Sayali Naik Ayushyaman Patil
<b>10</b>	Chess	Shagun Patel Gunjal Mahajan Shradha Ubale Shubham Naik
<b>11</b>	Salad	Monika Shelkande Rithik Rathod
<b>12</b>	Mehandi	Pratiksha Gotarne Darshan Patil Monika Shelkande Rithik Rathod
<b>13</b>	Rangoli	Isha Gupta Siya Patil Swapnali Gaikar Anshika Bawadekar Payal Rajput
<b>14</b>	Wall Painting	Pratiksha Gotarne Darshan Patil Monika Shelkande Rithik Rathod

  
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## Invitation letter

Dear students,

As we are celebrating rhythm 2023 it gives immense pleasure to invite you all along with your family members (only fathers/mother/grand parents ) to join us in annual night on 02/02/2023, be a part of it to make event successful. Please invite your parents on behalf of the institution.

  
**Principal**  
Ideal Institute of Pharmacy  
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