



Children's Education Society (Regd.)

The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka;

Approved by Pharmacy Council of India, New Delhi)

Accredited by NAAC and International Accreditation Organization (IAO)

CALENDER OF EVENTS-ACADEMIC YEAR 2022-2023

B. PHARM, M. PHARM, PHARM.D, PHARM.D(P.B)

1	3rd WEEK OF SEP 2022 (21 SEP 2022) TENTATIVELY	Inauguration & Orientation Commencement of Classes for I Year (Isem) B. Pharm & I sem M. Pharm and I Year PharmD, I PharmD (PB)
2	2 ND WEEK OF OCT 2022	Seminar by Department of Pharmaceutics
3	4 TH WEEK OF OCT 2022	Seminar by Department of Pharmaceutics
4	1 ST WEEK OF NOV 2022	Seminar by Department of Pharmacology
5	1 ST WEEK OF NOV 2022	FDP by Department of Pharmacy Practice
6	2 ND WEEK OF DEC 2022	Seminar by Department of Pharmacy Practice
7	3 RD WEEK DEC 2022 (11 DEC 2023) TENTATIVELY	Commencement of Classes For III, V and VII sem of B. Pharm, I and III Sem M. Pharm, II-V Year PharmD, II- year PharmD (PB) & Commencement of Hospital Internship for VI PharmD and III PB students
8	4 TH WEEK OF DEC 2022	Seminar/workshop/Guest lecture (Department of Pharmaceutical Chemistry) & IQAC
9	1 ST WEEK OF JAN 2023	Seminar by Department of Pharmaceutics
10	1 ST WEEK OF JAN 2023	FDP by Department of Pharmaceutical Chemistry
11	1 ST WEEK OF JAN 2023	Guest lecture by Department of Pharmacology
12	4 TH WEEK OF JAN 2023	Seminar/workshop/Guest lecture (Department of Pharmacy Practice) & IQAC
13	2 ND WEEK OF FEB 2023	I-Sessional Examination- I, III, V and VII sem of B. Pharm (RS5)/ I and III Sem M. Pharm (RS5)
14	2 ND WEEK OF FEB 2023	Guest lecture by Department of Pharmacognosy
15	2 ND WEEK OF FEB 2023	Seminar by Department of Pharmacology
16	2 ND WEEK OF FEB 2023	Seminar by Department of Pharmacy practice
17	2 ND WEEK OF FEB 2023	Guest Lecture by Department of Pharmacology
18	2 ND WEEK OF FEB 2023	Guest Lecture by Department of Pharmacognosy
19	4 TH WEEK OF FEB 2023	seminar/workshop/Guest lecture (Department of Pharmaceutics) & IQAC
20	4 TH WEEK OF FEB 2023	Guest lecture by Department of Pharmaceutics
21	1 ST WEEK OF MARCH 2023	Workshop by Department of Pharmacognosy
22	2 ND WEEK OF MAR 2023	I-Sessional Examination for I to V Pharm D(RS2), II Pharm D PB(RS).
23	2 ND WEEK OF MAR 2023	FDP by Department of Pharmacology
24	3 RD WEEK OF MAR 2023	seminar/workshop/Guest lecture (Department of Pharmacology) & IQAC
25	4 TH WEEK OF MAR 2023	seminar/workshop/Guest lecture (Department of Pharmacognosy) & IQAC
26	1 ST WEEK OF MAY 2023	II-Sessional Examination- I, III, V and VII sem of B. Pharm (RS5)/ I and III Sem M. Pharm (RS5)
27	1 ST WEEK OF MAY 2023	FDP by Department of Pharmaceutics



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28	2ND WEEK OF MAY 2023	Non-University subjects End semester Exam I Sem B. Pharm, III Sem M. Pharm
29	3RD WEEK OF MAY 2023	Finalization of Internal Assessment Marks for I/III/V/VII semester B. Pharm (RS5) and I/III Sem M. Pharm (RS5) & Last date for submission of IA Marks to RGUHS
30	MAY/ JUNE 2023 (TENTATIVELY)	RGUHS End Sem Exam –I, III, V and VII sem of B. Pharm (RS5)/ I & III Sem M. Pharm (RS5) & RGUHS Supplementary Exam B. Pharm, M. Pharm, PharmD
31	3RD WEEK OF JUNE 2023	II Sessional Examination for I–V Pharm D, I & II Pharm D PB
32	3RD WEEK OF JUNE 2023	FDP by Department of Pharmacognosy
33	4TH WEEK OF JUNE 2023	Commencement of classes for Even semester B. Pharm/ M. Pharm
34	4th WEEK OF JUNE 2023	seminar/workshop/Guest lecture (Department of Pharmaceutics) & IQAC
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36	2ND WEEK OF JULY 2023	Seminar/workshop/Guest lecture (Department of Pharmacy Practice) & IQAC
37	2ND WEEK OF JULY 2023	FDP by Department of Pharmaceutics
38	3 rd WEEK OF JULY 2023	Guest lecture by Department of Pharmacognosy
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40	3 rd WEEK OF JULY 2023	Guest lecture by Department of Pharmaceutics
41	2ND WEEK OF AUG 2023	seminar/workshop/Guest lecture (Department of Pharmacology Dept) & IQAC
42	3RD WEEK OF AUG 2023	I-Sessional Examination- II, IV and VI sem of B. Pharm (RS5)/II Sem M. Pharm (RS5)
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44	1ST WEEK OF SEP 2023	seminar/workshop/Guest lecture (Department of Pharmaceutical chemistry) & IQAC
45	2ND WEEK OF SEP 2023	Online /Offline Alumni Meet-2023
46	2 ND WEEK OF SEP 2023	Cultural events
47	3RD WEEK OF SEP 2023	III Sessional Examination for I–V Pharm D, I & II Pharm D PB
48	1ST WEEK OF OCT 2023	Last Working Day of Academic Year 2022-23 For I–V Pharm D(RS2), I & II Pharm D PB (RS)
49	1 st WEEK OF OCT 2023	Workshop by Department of Pharmacology
50	2ND WEEK OF OCT 2023	II-Sessional Examination- II, IV and VI sem of B. Pharm (RS5)/ II Sem M. Pharm (RS5)
51	2 ND WEEK OF OCT 2023	M.Pharm (RS5) IV semester -Dissertation submission last date to RGUHS
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55	3RD WEEK OF DEC 2023	Completion of Hospital internship of VI PharmD and III PB

P. Padma

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B. PHARM RS6 SEMESTER - II

I SESSIONAL EXAM 2022-2023

Date of Exam: 29/08/23

SUBJECT CODE:	BP202T	TOTAL MARKS	30											
SUBJECT NAME:	PHARMACEUTICAL ORGANIC CHEMISTRY I	EXAM Hrs.	1 hour 2:00-3:00 pm											
COURSE OBJECTIVE: The Objective of this course is to <ul style="list-style-type: none"> Educate students to have sound knowledge in pharmaceutical sciences and to attain skills required in pharmacy profession. To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Community and Hospital Pharmacy and also to pursue higher studies. To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmaceutical formulation & development, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins. 														
I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO-PO-PSO #	Bloom's Taxonomy Level *											
1. Define the kinetics, mechanism and stereochemistry and reactivity of SN2 reactions.	10	CO (3), PO(1)	L1											
2. Write the kinetics and mechanism of E ₂ reaction.	10	CO (3), PO(1)	L1											
II SHORT ESSAYS 2X5 = 10 MARKS														
3. Explain the mechanisms of Markownikov's and Anti-markovnikov's addition reaction (OR) Discuss the mechanism of 1,2 & 1,4 addition reaction with examples.	5	CO (2), PO (1,3,4)	L1											
4. Write any four methods of preparation of alkanes and alkenes	5	CO (2), PO (1,3,4)	L1											
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS														
5. What is positional isomerism? Give examples	2	CO (1), PO (1,4)	L1											
6. Write the structure of 1,3-Butadiene and Isopropyl alcohol	2	CO (1), PO (1,4)	L1											
7. Write any two preparation of alkyl halide.	2	CO (2), PO (1,3,4)	L1											
8. Define metamerism with example.	2	CO (1), PO (1,4)	L1											
9. What is Saytzeff rule.	2	CO (2), PO (1,3,4)	L1											
# {e.g. CO(1), PO (1-3,8,11), PSO (1,2)} * (e.g.L1, L2) Note:Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating														
COURSE OUTCOMES														
CO1 To write the structure, name and the type of isomerism of the organic compound														
CO2 To write the reaction, name the reaction and orientation of reactions														
CO3 To account for reactivity/stability of compounds,														
CO4 To identify/confirm the identification of organic compound														
CO-PO-PSO MAPPING														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	1	-	1	1	-	-	-	-	-	-	-	-	-	1
CO2	1	-	1	3	-	-	-	-	-	-	-	-	-	1
CO3	1	-	2	2	-	-	-	-	-	-	-	-	-	3
CO4	1	-	-	1	-	-	-	-	-	-	-	-	-	1



Course: II Sem B Pharm

Student Name:

Subject: Pharmaceutical Organic Chemistry-I

Staff In-charge: Mrs Chanda Ranjan

S.No	TOPIC	Class Test [10]	Home Assign [10]	Viva [10]	Sign
I SESSIONAL					
1.	Classification, nomenclature and isomerism				
2.	Alkanes*, Alkenes* and Conjugated dienes*				
3	Alkyl halides*				
	Total				
	Average (allotted for Theory)	Class test [3]	Home assign [3]	Attendance [4]	Total [10]
	Average (obtained for Theory)				
	Average (allotted for Practical)	Viva [1.5]	Record [1.5]	Attendance [2]	Total [5]
	Average (obtained for Practical)				
II SESSIONAL					
4	Alcohols*				
5	Carbonyl compounds* (Aldehydes and ketones)				
6	Carboxylic acids*, Aliphatic amines*				
	Total				
	Average (allotted for Theory)	Class test [3]	Home assign [3]	Attendance [4]	Total [10]
	Average (obtained for Theory)				
	Average (allotted for Practical)	Viva [1.5]	Record [1.5]	Attendance [2]	Total [5]
	Average (obtained for Practical)				

Signature of subject In-charge

Signature of Mentor

Signature of H.O.D



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 (RGUHS, Pharm D & Pharm D (Post Baccalaureate Revised Regulations 2008).
 (Effective from 2012-2013)

PHARM.D RS2 YEAR - II
SESSIONAL EXAM (Internal Assessment)- III
 Date of Exam : 03/10/2023

SUBJECT CODE:	PHAD2B06Th	TOTAL MARKS	30
SUBJECT NAME:	PHARMACOTHERAPEUTICS - I	EXAM Hrs.	02:00-03:30 PM

COURSE OBJECTIVE: The Objective of this course is to

- Educate students to have sound knowledge and to impart skills necessary for contribution to quality use of medicines, pathophysiology and therapeutics of various diseases. To enable the student to understand the pathophysiology of common diseases and their management in pharmaceutical sciences and to attain skills required in pharmacy profession.
- To afford students with proficiency of technical skills in various areas of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Community and Hospital Pharmacy, Pharmacovigilance, Clinical research and also to pursue higher studies.
- To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmacotherapeutics, Pathophysiology, Pharmaceutical formulations, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins.

I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO-PO #	Bloom's Taxonomy Level *
1. Explain General Prescribing Guideline For Paediatric Patients	10	CO4, PO(1,2,4,5,6,7,8,10,11)PSO1,2	L1
2. Define Glaucoma, Types Of Glaucoma And Write Clinical Presentation. Pathophysiology And Management Of Closed Angle Glaucoma	10	CO1, PO(1,6,11) PSO1	L1
II Short Essays (Answer Any Two) 2x5 = 10 Marks			
3. WHO'S interventions/ guidelines for promoting rational use of drugs	5	CO5, PO(1,3,4,6,7,8,9,10,11)PSO1,3	L1
4. Narrate General Prescribing Guidelines In Lactating Mothers	5	CO4, PO(1,2,4,5,6,7,8,10,11)PSO1,2	L1
5. Discuss Treatment Options For Viral Conjunctivitis	5	CO1, PO(1,6,11) PSO1	L1
III Short Answers (Answer All) 5x2 = 10 Marks			
6. Define Pregnancy Categories Of Drugs .	2	CO4, PO(1,2,4,5,6,7,8,10,11)PSO1,2	L1
7. Define Rational Drug Use And List Out The Objectives	2	CO5, PO(1,3,4,6,7,8,9,10,11)PSO1,3	L1
8. Why Geriatric Population Are More Susceptible For ADR?	2	CO4, PO(1,2,4,5,6,7,8,10,11)PSO1,2	L1
9. Differentiate Between Bacterial And Viral Conjunctivitis?	2	CO1, PO(1,6,11) PSO1	L1
10. Define IOP With Normal Values	2	CO1, PO(1,6,11) PSO1	L1

{e.g. CO(1), PO (1-3,8,11)} * (e.g. L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

CO1: Impart knowledge and skills necessary for contribution to quality use of medicines
 To study the etiopathogenesis of selected diseases
CO2: knowledge about the rationality of drug therapy and study the therapeutic approach in the management of diseases.
CO3: Understand controversies in drug therapy and preparation of the individualized therapeutic plan based on diagnosis.
CO4: Learn and apply patient specific parameters in initiating drug therapy and distinguish the management strategies of selected diseases in special populations.
CO5: Study in detail the concepts of essential drug concept and rational drug therapy.
 Assess drug safety monitoring, contraindications and treatment outcomes and modify treatment plan as needed.

CO-PO-PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	-	-	-	-	1	-	-	-	-	1	3	-	-
CO2	3	3	3	1	-	2	1	-	1	1	-	1	-	2
CO3	3	2	2	-	-	2	1	1	1	1	-	1	-	3
CO4	2	1	-	3	2	1	1	2	-	1	1	1	1	-
CO5	2	-	1	2	-	1	1	1	2	1	1	1	-	1



Student Name -
Course: II Pharm D

Reg No -

Subject: PCTH I
Staff In-Charge: Dr SRIPRIYA

SL. NO	NAME OF TOPIC	TEST DATE & MARK (10)	ASSIGN DATE & MARK (10)	VIVA DATE & MARK (10)	MARKS	SIGN
I SESSIONAL						
1.	Thyroid disorder , osteoporosis					
2.	Diabetes mellitus, oral contraceptives, hormonal replacement					
3.	RESPIRATORY SYSTEM-Asthma, COPD, drug induced pulmonary disease					
TOTAL MARKS (OUT OF 80)						
AVERAGE (OUT OF 4 MARKS)						
II SESSIONAL						
4.	Cardiovascular system – Hypertension, CHF					
5.	Angina pectoris, Myocardial infarction,Hyperlipidemia					
6.	Electrophysiology of heart, cardiac arrhythmias					
TOTAL MARKS (OUT OF 80)						
AVERAGE (OUT OF 4 MARKS)						
III SESSIONAL						
7.	General prescribing guidelines for paediatric patients, geriatric patients pregnancy and breast feeding					
8.	Ophthalmology – glaucoma , conjunctivitis					
9	Introduction to rational drug use					
TOTAL MARKS (OUT OF 80)						
AVERAGE (OUT OF 4 MARKS)						
AVERAGE (3 SESSIONAL)						
SCORE WILL BE INCLUDED IN PRACTICAL SESSIONAL MARKS						
SIGNATURE OF SUBJECT IN-CHARGE		SIGNATURE OF MENTOR		SIGNATURE OF H.O.D		



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the Pharmacy Council of India, New Delhi)

M. PHARM (PHARMACOLOGY) RS5 – II SEMESTER SESSIONAL EXAM (Internal Assessment)- I Date of Exam : 29/08/2023			
SUBJECT CODE:	MPL201T	TOTAL MARKS	30
SUBJECT NAME:	Advanced Pharmacology-II	EXAM HRS.	1 hour 10:00 to 11:00 AM

COURSE OBJECTIVE: The Objective of this course is to

- Produce postgraduates with advanced knowledge and understanding of pharmacology; higher order critical, analytical, problem solving and transferable skills.
- Uphold all laws, regulations, safety and ethical standards that apply to the experimental procedures in animals and the environment as well as to impart adequate hands-on training in various animal models and determine the effects of drugs using animal models
- Provide practical inputs in pharmacokinetic studies of various drugs and formulations in animals to establish in-vitro and in-vivo correlations and prepare the students in teamwork, lifelong learning and continuous improvement.

LONG ESSAYS (ANSWER ALL THE QUESTIONS) 4X7.5 = 30 MARKS	Marks	CO-PO-PSO #	Bloom's Taxonomy Level *
1. Discuss the MOA and Pharmacological action of Growth Hormone.	7.5	CO (1), PO (1)	L2
2. Classify Oral Hypoglycemic drugs. Discuss the MOA, ADR and uses of Biguanides.	7.5	CO (1), PO (1)	L1
3. Classify Penicillin with examples. Write the mechanism of action and therapeutic uses of amoxicillin.	7.5	CO (2), PO (1,10)	L1
4. Classify antineoplastic agents with examples. Write the mechanism of action and adverse effects of Methotrexate.	7.5	CO (3), PO (1,3)	L2

{e.g. CO(1), PO (1-3,8,11), PSO (1,2)} * (e.g.L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

CO1	Understand Endocrine Pharmacology of drugs at cellular and molecular level
CO2	Discuss the pharmacotherapy of Antibiotics
CO3	Recognize the Pharmacotherapy of drug involved in autoimmune disease
CO4	Discuss GIT Pharmacology and application of Chronotherapy in various disease
CO5	Understand free radicals Pharmacology and its recent advancement in treatment.

CO-PO-PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	3	-	-	-	-	-	-	-	-	1	-	-	-	-
CO3	2	-	2	-	-	-	-	-	-	-	-	-	-	-
CO4	2	-	-	-	-	-	-	-	-	-	1	-	-	-
CO5	3	-	-	-	-	-	-	-	-	-	-	1	-	-



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(RGUHS, The Revised Regulations for the B. Pharm. Degree Program (CBCS) of
the Pharmacy Council of India, New Delhi)

M. PHARM (PHARMACOLOGY) RS5 – II SEMESTER SESSIONAL EXAM (Internal Assessment)- II Date of Exam : 17/10/2023														
SUBJECT CODE:	MPL201T	TOTAL MARKS	30											
SUBJECT NAME:	Advanced Pharmacology-II	EXAM HRS.	1 hour 10:00 to 11:00 AM											
<p>COURSE OBJECTIVE: The Objective of this course is to</p> <ul style="list-style-type: none"> • Produce postgraduates with advanced knowledge and understanding of pharmacology; higher order critical, analytical, problem solving and transferable skills. • Uphold all laws, regulations, safety and ethical standards that apply to the experimental procedures in animals and the environment as well as to impart adequate hands-on training in various animal models and determine the effects of drugs using animal models • Provide practical inputs in pharmacokinetic studies of various drugs and formulations in animals to establish in-vitro and in-vivo correlations and prepare the students in teamwork, lifelong learning and continuous improvement. 														
LONG ESSAYS (ANSWER ALL THE QUESTIONS) 4X7.5 = 30 MARKS	Marks	CO-PO-PSO #	Bloom's Taxonomy Level *											
1. Describe the Pharmacotherapy of Asthma.	7.5	CO (3), PO (1,3)	L1											
2. Classify immunosuppressant. Discuss the MOA and Pharmacological actions of any one Immunosuppressant.	7.5	CO (3), PO (1,3)	L1											
3. Describe the role of free radicals in D.M and discuss the recent advances in the treatment of Diabetes.	7.5	CO (5), PO (1), PSO (1)	L2											
4. Write the application of Chronotherapy of peptic ulcer.	7.5	CO (4), PO (1,11)	L3											
<p># {e.g. CO(1), PO (1-3,8,11), PSO (1,2)} * (e.g.L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge) , L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating</p>														
COURSE OUTCOMES														
CO1	Understand Endocrine Pharmacology of drugs at cellular and molecular level													
CO2	Discuss the pharmacotherapy of Antibiotics													
CO3	Recognize the Pharmacotherapy of drug involved in autoimmune disease													
CO4	Discuss GIT Pharmacology and application of Chronotherapy in various disease													
CO5	Understand free radicals Pharmacology and its recent advancement in treatment.													
CO-PO-PSO MAPPING														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	3	-	-	-	-	-	-	-	-	1	-	-	-	-
CO3	2	-	2	-	-	-	-	-	-	-	-	-	-	-
CO4	2	-	-	-	-	-	-	-	-	-	1	-	-	-
CO5	3	-	-	-	-	-	-	-	-	-	-	1	-	-



Course: M Pharm II Semester
Student name:

Subject: Advanced Pharmacology-II (MPL201T)
Staff In charge: Dr. Noopur Srivastava

S. No	Name of the Chapter	Class test Date/mark (10)	Assignment Date/mark (10)	Seminar Date / Mark (10)	Regular Practical Viva Date/mark (10)	Marks	Sign
I SESSIONAL							
1.	Endocrine Pharmacology						
2.	Chemotherapy						
3.	Chemotherapy & Immunopharmacology (Half Portion)						
		Total Marks (Out of 30)	Average (Out of 2marks)	Attendance (8 marks)	Total (10 marks)		
Total Marks obtained in theory							
		Total Marks (Out of 30)	Average (Out of 8.5 marks)	Attendance (4 marks)	Total (12.5 marks)		
Total Marks obtained in Assignment							
		Total Marks (Out of 30)	Average (Out of 8.5 marks)	Attendance (4 marks)	Total (12.5 marks)		
Total Marks obtained in Seminar							
		Record (2.0 marks)	Regular viva (2.0 marks)	Attendance (6 marks)	Total (10 marks)		
Total Marks obtained in practical of Pharmacology -II							
II SESSIONAL							
4.	Chemotherapy & Immunopharmacology (Half Portion)						
5.	GIT Pharmacology						
6.	Free radicals Pharmacology & Recent Advances in Treatment						
		Total Marks (Out of 30)	Average (Out of 2marks)	Attendance (8 marks)	Total (10 marks)		
Total Marks obtained in theory							
		Total Marks (Out of 30)	Average (Out of 8.5 marks)	Attendance (4 marks)	Total (12.5 marks)		
Total Marks obtained in Assignment							
		Total Marks (Out of 30)	Average (Out of 8.5 marks)	Attendance (4 marks)	Total (12.5 marks)		
Total Marks obtained in Seminar							
		Record (2.0 marks)	Regular viva (2.0 marks)	Attendance (6 marks)	Total (10 marks)		
Total Marks obtained in practical of Pharmacology -II							

Signature of Subject In-charge.

Signature of Mentor

Signature of H.O.D



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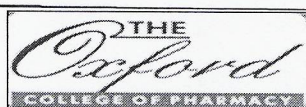
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CALENDER OF EVENTS-ACADEMIC YEAR 2021-2022

B. PHARM, M. PHARM, PHARM.D, PHARM.D(P.B)

1.	4 th WEEK OF OCT 2021 (28 th OCT 2021) TENTATIVELY	Inauguration & Orientation Commencement of Classes for I Year (Isem)B. Pharm & I Sem M. Pharm and I Year PharmD, I PharmD (PB)
2.	4 th WEEK OF OCT 2021	Guest talk organized by Department of Pharmacology
3.	2 nd WEEK OF NOV 2021	RGUHS EXAM 2020-21 Batch B. Pharm, M. Pharm, PharmD
4.	3 RD WEEK OF NOV 2021	Seminar by Pharmaceutics
5.	3 RD WEEK OF NOV 2021	FDP by Pharmacology
6.	2 ND WEEK OF DEC 2021	Commencement of Classes For III, V and VII Sem of B. Pharm, I and III Sem M. Pharm, I-V Year PharmD, I&II-year PharmD (PB) & Commencement of Hospital Internship for VI Pharm D and III PB students
7.	4 th WEEK OF DEC 2021	Online Webinar/seminar (Department of Pharmaceutics) & IQAC
8.	4 th WEEK OF DEC 2021	Guest lecture organized by Department of Pharmacology
9.	4 th WEEK OF DEC 2021- 2 nd WEEK OF JAN 2022	Campus Interview/ Placement training webinars (Placement committee)
10.	2 nd WEEK OF JAN 2022	Seminar by Department of Pharmaceutics
11.	2 ND WEEK OF JAN 2022	Online Webinar/seminar (Department of Pharmaceutical Chemistry) & IQAC
12.	2 ND WEEK OF JAN 2022	Online Webinar/seminar (Department of Pharmacognosy) & IQAC
13.	3 RD WEEK OF JAN 2022	Online Webinar/seminar (Department of Pharmacy practice) & IQAC
14.	3 RD WEEK OF JAN 2022	Guest Lecture organized by Department of Pharmaceutics
15.	3 RD WEEK OF JAN 2022	Online Webinar/seminar (Pharmaceutics Dept) & IQAC
16.	3 RD WEEK OF JAN 2022	FDP by Pharmacology
17.	4 TH WEEK OF JAN 2022	Online Webinar/seminar (Department of Pharmaceutical Chemistry Dept) & IQAC
18.	4 TH WEEK OF JAN 2022	Online Webinar/seminar (Department of Pharmacology) & IQAC
19.	4 th WEEK OF JAN 2022	Guest lecture Organized by NSS
20.	1 st WEEK OF FEB 2022	Guest lecture organized by Department of Pharmaceutics
21.	2 ND WEEK OF FEB 2022	Online Webinar/seminar (Department of Pharmacology) & IQAC
22.	3 RD WEEK OF FEB 2022	Online Webinar/seminar (Department of Pharmacy Practice)& IQAC
23.	4 TH WEEK OF FEB 2022	I-Sessional Examination of I to V Pharm D(RS2), II Pharm D PB(RS).
24.	4 TH WEEK OF FEB 2022	I-Sessional Examination- I, III, V and VII Sem of B. Pharm (RS5)/ I and III Sem M. Pharm (RS5)
25.	1 ST WEEK OF MAR 2022	Non-University subj. End semester Exam I Sem B. Pharm, III Sem M. Pharm
26.	2 nd WEEK OF MARCH 2022	Webinar by Departments of Pharmacognosy and Pharmaceutical Chemistry
27.	2 nd WEEK OF MARCH 2022	FDP by Department of Pharmaceutical Chemistry
28.	4 th WEEK OF MARCH 2022	Seminar by Department of Pharmacology



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29	MARCH/ APR 2022 (TENTATIVELY)	RGUHS End Sem Exam –I, III, V and VII Sem of B. Pharm (RS5)/ I & III Sem M. Pharm (RS5) & RGUHS Supplementary Exam B. Pharm, M. Pharm, PharmD
30	15 APRIL 2022	Submission of M. pharm synopsis to RGUHS
31	3 RD WEEK OF APRIL 2022	Commencement of classes for Even semester B. Pharm/ M. Pharm
32	1 ST WEEK OF MAY 2022	Online Webinar/seminar (Pharmacognosy Dept) & IQAC
33	2 ND WEEK OF MAY 2022	II-Sessional Examination- I, III, V and VII Sem of B. Pharm (RS5)/ I and III Sem M. Pharm (RS5)
34	2 ND WEEK OF MAY 2022	FDP by Department of Pharmaceutics
35	4 TH WEEK OF MAY 2022	II Sessional Examination for I–V Pharm D, I & II Pharm D PB
36	3 RD WEEK OF MAY 2022	Online Webinar/seminar (Department of Pharmaceutics) & IQAC
37	4 TH WEEK OF MAY 2022	Online Webinar/seminar (Department of Pharmaceutical Chemistry) & IQAC
38	1 ST WEEK OF JUNE 2022	Online Webinar/seminar (Department of Pharmacology) & IQAC
39	2 ND WEEK OF JUNE 2022	I-Sessional Examination- II, IV and VI Sem of B. Pharm (RS5)/ II Sem M. Pharm (RS5)
40	3 RD WEEK OF JUNE 2022	Online Webinar/seminar (Department of Pharmacy Practice) & IQAC
41	4 TH WEEK OF JUNE 2022	Online Webinar/seminar (Department of Pharmacology) & IQAC
42	2 ND WEEK OF JULY 2022	Online /Offline Alumni Meet-2022
43	4 TH WEEK OF JULY 2022	Webinar by Department of Pharmacology
44	2 ND WEEK OF JULY 2022	Online/Offline Cultural events (Cultural committee)
45	3 RD WEEK OF JULY 2022	Online Webinar/seminar (Department of Pharmacognosy) & IQAC
46	3 RD WEEK OF JULY 2022	Online Webinar/seminar (Department of Pharmaceutical Chemistry) & IQAC
47	1 ST WEEK AUG 2022	M.Pharm (RS5) IV semester -Dissertation submission last date to RGUHS
48	4 TH WEEK OF AUG 2022	II-Sessional Examination- II, IV and VI Sem of B. Pharm (RS5)/ II Sem M Pharm (RS5)
49	4 TH WEEK OF AUG 2022	III Sessional Examination for I–V Pharm D, I & II Pharm D PB
50	4 TH WEEK OF AUG 2022	Seminar by Department of Pharmacognosy
51	4 TH WEEK OF AUG 2022	Last Working Day of Academic Year 2021-22 For Semester

P. Padma
Principal

PRINCIPAL

The Oxford College Of Pharmacy
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Bangalore - 560 068



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M. PHARM (PHARMACOLOGY) RS5 – I SEMESTER SESSIONAL EXAM (Internal Assessment)- I Date of Exam :30/03/2022

SUBJECT CODE:	MPL101T	TOTAL MARKS	30
SUBJECT NAME:	Advanced Pharmacology-I	EXAM HRS.	1 hour 10.00 to 11.00 AM

COURSE OBJECTIVE: The Objective of this course is to Produce postgraduates with advanced knowledge and understanding of pharmacology; higher order critical, analytical, problem solving and transferable skills. Uphold all laws, regulations, safety and ethical standards that apply to the experimental procedures in animals and the environment as well as to impart adequate hands-on training in various animal models and determine the effects of drugs using animal models Provide practical inputs in pharmacokinetic studies of various drugs and formulations in animals to establish in-vitro and in-vivo correlations and prepare the students in teamwork, lifelong learning and continuous improvement.

LONG ESSAYS (ANSWER ALL THE QUESTIONS) 4X7.5 = 30 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. What are the factors affecting the absorption and distribution of drugs. Add a note on significance of plasma protein binding.	7.5	CO (3)	L1
2. Define and classify sympathomimetic drugs with examples. Explain the pharmacology of any one sympathomimetic drug.	7.5	CO (3)	L1
3. Explain the steps involved in neuro-humoral transmission in central nervous system. Add a note on any neurotransmitter of CNS.	7.5	CO (3)	L1
4. Define and classify antidepressants with examples. Write the pharmacology of SSRIs and TCAs.	7.5	CO (2)	L2

{e.g. CO(1), PO (1-3,8,11), PSO (1,2)} * (e.g.L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

CO1	Discuss the pathophysiology and pharmacotherapy of certain diseases
CO2	Explain the mechanism of drug actions at cellular and molecular level
CO3	Understand the adverse effects, contraindications and clinical uses of drugs used in treatment of diseases



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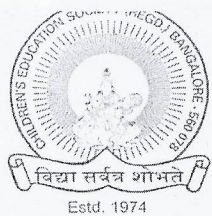
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M. PHARM (PHARMACOLOGY) RS5 – I SEMESTER SESSIONAL EXAM (Internal Assessment)- II Date of Exam : 30/06/2022			
SUBJECT CODE:	MPL101T	TOTAL MARKS	30
SUBJECT NAME:	Advanced Pharmacology-I	EXAM HRS.	1 hour 10.00 to 11.00 A M
<p>COURSE OBJECTIVE: The Objective of this course is to Produce postgraduates with advanced knowledge and understanding of pharmacology; higher order critical, analytical, problem solving and transferable skills. Uphold all laws, regulations, safety and ethical standards that apply to the experimental procedures in animals and the environment as well as to impart adequate hands-on training in various animal models and determine the effects of drugs using animal models Provide practical inputs in pharmacokinetic studies of various drugs and formulations in animals to establish in-vitro and in-vivo correlations and prepare the students in teamwork, lifelong learning and continuous improvement.</p>			
LONG ESSAYS (ANSWER ALL THE QUESTIONS) 4X7.5 = 30 MARKS		Marks	CO
1. Write the physiological and pathological role of histamine.		7.5	CO (1)
2. Define and classify sedatives and hypnotics with examples. Write the pharmacology of barbiturates.		7.5	CO (3)
3. Classify non-narcotic agents. Discuss the pharmacological actions, ADRs and uses of Aspirin.		7.5	CO (3)
4. Write a note on Antiplatelet drugs.		7.5	CO (5)
<p># {e.g. CO(1), PO (1-3,8,11), PSO (1,2)} * (e.g.L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge) , L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating</p>			
COURSE OUTCOMES			
CO1	Discuss the pathophysiology and pharmacotherapy of certain diseases		
CO2	Explain the mechanism of drug actions at cellular and molecular level		
CO3	Understand the adverse effects, contraindications and clinical uses of drugs used in treatment of diseases		



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Course: M Pharm I Semester

Subject: Advance Pharmacology-I (MPL101T)

Student name:

Staff In charge: Dr. Noopur Srivastava

S. No	Name of the Chapter	Class test Date/mark (10)	Assignment Date/mark (10)	Seminar Date / Mark (10)	Regular Practical Viva Date/mark (10)	Marks	Sign
I SESSIONAL							
1.	General Pharmacology						
2.	Neurotransmission, Systemic and Autonomic Pharmacology						
3.	Central nervous system Pharmacology (Half Portion)						
		Total Marks (Out of 30)	Average (Out of 2marks)		Attendance (8 marks)	Total (10 marks)	
Total Marks obtained in theory							
		Total Marks (Out of 30)	Average (Out of 10 marks)		Attendance (4 marks)	Total (14 marks)	
Total Marks obtained in Assignment							
		Total Marks (Out of 30)	Average (Out of 10 marks)		Attendance (4 marks)	Total (14 marks)	
Total Marks obtained in Seminar							
		Record (2.5 marks)	Regular viva (2.5 marks)		Attendance (10 marks)	Total (15 marks)	
Total Marks obtained in practical of Pharmacology -I							
II SESSIONAL							
4.	Central nervous system Pharmacology (Half Portion)						
5.	Cardiovascular Pharmacology						
6.	Autacoids Pharmacology						
		Total Marks (Out of 30)	Average (Out of 2marks)		Attendance (8 marks)	Total (10 marks)	
Total Marks obtained in theory							
		Total Marks (Out of 30)	Average (Out of 10 marks)		Attendance (4 marks)	Total (14 marks)	
Total Marks obtained in Assignment							
		Total Marks (Out of 30)	Average (Out of 10 marks)		Attendance (4 marks)	Total (14 marks)	
Total Marks obtained in Seminar							
		Record (2.5 marks)	Regular viva (2.5 marks)		Attendance (10 marks)	Total (15 marks)	
Total Marks obtained in practical of Pharmacology -I							

Signature of Subject In-charge.

Signature of Mentor

Signature of H.O.D



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I PHARM.D RS2

SESSIONAL EXAM (Internal Assessment)-I

Date of Exam: 21/02/2022

SUBJECT CODE:	PHAD2B01 TH	TOTAL MARKS	30 M
	Human Anatomy and Physiology	EXAM HRS.	1 hr 30 Min 10:00- 11:30am

COURSE OBJECTIVE:

- To create dynamic and proficient Pharmacists for their successful careers in pharmaceutical industry, academia, government organization, hospitals, and other organizations and as an entrepreneur.
- To inculcate in student graduates, ability to gain multidisciplinary knowledge through innovative projects, visiting research institutions, health care communities, health promoters, employees and employers.
- To undertake collaborative projects which tender prospects for continuous interaction between academia and industry.

I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Mention coagulation factor and write the mechanisms of blood coagulation.	10	CO4	L2
2. What is Cardiac cycle? Describe various events of cardiac cycle.	10	CO5	L2
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. Write the composition and functions of bone.	5	CO4	L1
4. Explain the structure and functions of neuron.	5	CO5	L1
5. Write a note on lymph node. Write its function.	5	CO2	L2
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
6. Write the normal values and life span of the following: (a) Hb: (b) WBC: (c) RBC. (d) Platelets	2	CO5	L1
7. Write a note on Lysosomes and Chromosomes.	2	CO5	L1
8. What is lymphoedema and splenomegaly?	2	CO3	L1
9. Write the stages of formation of RBC.	2	CO3	L1
10. Draw ECG and label deflection waves.	2	CO5	L1

Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

- CO1 Describe the structure (gross and histology) and functions of various organs of the human body
 CO2 Describe the various homeostatic mechanisms and their imbalances of various systems
 CO3 Identify the various tissues and organs of the different systems of the human body;
 CO4 Perform the hematological tests and also record blood pressure, heart rate, pulse and Respiratory volumes
 CO5 Appreciate coordinated working pattern of different organs of each system; and
 CO6 Appreciate the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of the human body



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I PHARM.D RS2

SESSIONAL EXAM (Internal Assessment)-II

Date of Exam: 23/05/2022

SUBJECT CODE:	PHAD2B01 TH	TOTAL MARKS	30 M
	Human Anatomy and Physiology	EXAM HRS.	1 hr 30 Min 10:00- 11:30am

COURSE OBJECTIVE:

- To create dynamic and proficient Pharmacists for their successful careers in pharmaceutical industry, academia, government organization, hospitals, and other organizations and as an entrepreneur.
- To inculcate in student graduates, ability to gain multidisciplinary knowledge through innovative projects, visiting research institutions, health care communities, health promoters, employees and employers.
- To undertake collaborative projects which tender prospects for continuous interaction between academia and industry.

I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Mar ks	CO-PO #	Bloom's Taxonom y Level *
11. Explain the functions of different cranial nerves.	10	CO4	L2
12. Write the anatomy of pancreas. Discuss the endocrine and exocrine secretions of pancreas.	10	CO5	L2
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
13. Discuss the digestion of carbohydrates.	5	CO4	L1
14. Discuss the internal structure of spinal cord.	5	CO5	L1
15. Explain lung volumes and capacities.	5	CO2	L2
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
16. Write the functions of olfactory and optic nerve.	2	CO5	L1
17. Explain peristaltic movement of small intestine.	2	CO5	L1
18. What is synaptic cleft? State its function.	2	CO3	L1
19. Name the muscles of respiration.	2	CO3	L1
20. What is liver cirrhosis?	2	CO5	L1

{e.g. CO(1), PO (1-3,8,11)} * (e.g.L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

- CO1 Describe the structure (gross and histology) and functions of various organs of the human body
 CO2 Describe the various homeostatic mechanisms and their imbalances of various systems
 CO3 Identify the various tissues and organs of the different systems of the human body;
 CO4 Perform the hematological tests and also record blood pressure, heart rate, pulse and Respiratory volumes
 CO5 Appreciate coordinated working pattern of different organs of each system; and
 CO6 Appreciate the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of the human body



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Course: I Pharm D

Student Name:

Reg No:

Subject: Human Anatomy and Physiology

Subject in-charge:

SL. NO	NAME OF TOPIC	HOME ASSIGNMENT	CLASS TEST	VIVA	MARKS	SIGN
I SESSIONAL						
1.	Structure of cell & Elementary Tissues					
2.	Osseus System					
3.	Haemopoeitic System & Lymph					
4.	Cardiovascular System					
TOTAL MARKS (OUT OF 90)						
CPA marks to be added for practical (OUT OF 4 MARKS)						
REMARKS OF HOD:						
II SESSIONAL						
5.	Respiratory System					
6.	Digestive System					
7.	Nervous System					
8.	Urinary System					
TOTAL MARKS (OUT OF 90)						
CPA marks to be added for practical (OUT OF 4 MARKS)						
REMARKS OF HOD:						
III SESSIONAL						
9.	Endocrine System					
10.	Reproductive System					
11.	Sense Organ					
12.	Skeletal Muscles & Sport Physiology					
TOTAL MARKS (OUT OF 90)						
CPA marks to be added for practical (OUT OF 4 MARKS)						
AVERAGE (3 SESSIONAL)						
REMARKS OF HOD:						
SIGNATURE OF			SIGNATURE OF MENTOR		SIGNATURE OF H.O.D SUBJECT IN-CHARGE	



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B. PHARM RS5 SEMESTER - V

SESSIONAL EXAM (Internal Assessment) – I

Date of Exam: 02/03/2022

SUBJECT CODE:	BP502T	TOTAL MARKS	30
SUBJECT NAME:	Industrial Pharmacy-I	EXAM Hrs.	1 hour 10.00AM-11.00AM

COURSE OBJECTIVE: The Objective of this course is

- To Educate students to have sound knowledge in pharmaceutical sciences and to attain skills required in pharmacy profession.
- To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Community and Hospital Pharmacy and also to pursue higher studies.
- To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmaceutical formulation & development, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins.

I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Describe in detail wet granulation technique and compare with dry granulation.	10	CO 1	L1
2. Define capsules? Write on formulation of hard gelatin capsules.	10	CO 1	L1
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. How do you solve solubility and stability problems in the development of liquid orals? OR Write on BCS classification system with examples.	5	CO 2	L4
4. Describe quality control tests for capsules.	5	CO 4	L1
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
5. Write the goals of preformulation studies.	2	CO 2	L2
6. Write on preservatives used in liquid orals.	2	CO 3	L1
7. List out the quality control tests of tablets.	2	CO 4	L1
8. What do you mean by bloom strength?	2	CO 2	L2
9. Give the significance of bland excipients in buccal tablets.	2	CO 3	L2

Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

- CO1. Know the various pharmaceutical dosage forms and their manufacturing techniques.
CO2. Know various considerations in development of pharmaceutical dosage forms
CO3. Formulate solid, liquid and semisolid dosage forms and evaluate them for their quality



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B. PHARM RS5 SEMESTER - V SESSIONAL EXAM (Internal Assessment) – II Date of Exam: 10/05/2022			
SUBJECT CODE:	BP502T	TOTAL MARKS	30
SUBJECT NAME:	Industrial Pharmacy-I	EXAM Hrs.	1 hour 10.00AM-11.00AM
COURSE OBJECTIVE: The Objective of this course is <ul style="list-style-type: none"> To Educate students to have sound knowledge in pharmaceutical sciences and to attain skills required in pharmacy profession. To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Community and Hospital Pharmacy and also to pursue higher studies. To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmaceutical formulation & development, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins. 			
I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Bloom's Taxonomy Level *
1 Define aerosols. Explain the different parts of aerosol system.	10	CO 1	L2
2. Describe briefly the formulation requirements for manufacture of parenteral.	10	CO 1	L2
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. Write a note on stability aspects of pharmaceutical containers. OR Describe the formulation of shampoo.	5	CO 5	L3
4. Describe the formulation of eye drops.	5	CO 4	L2
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
5. What are the methods available to seal the ampoules?	2	CO 5	L1
6. What are the ideal requirements of eye ointments?	2	CO 2	L2
7. Write the materials used for packing of pharmaceutical	2	CO 3	L1
8. Write the formulation of tooth paste.	2	CO 4	L2
9. List out four advantages of aerosols.	2	CO 1	L1
Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge) , L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating			
COURSE OUTCOMES			
CO1. Know the various pharmaceutical dosage forms and their manufacturing techniques.			
CO2. Know various considerations in development of pharmaceutical dosage forms			
CO3. Formulate solid, liquid and semisolid dosage forms and evaluate them for their quality			



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Course: B Pharm V Semester

Student Name:

Subject: Industrial Pharmacy I

Reg: No:

Staff In-charge: Divya S Kumar

S.No	TOPIC	Class Test [10]	Home Assign. [10]	Viva [10]	Signature
I SESSIONAL					
1	Preformulation Studies				
2	Tablets & Liquid Orals				
3	Capsules				
	Total				
	Average (allotted for Theory)	Class test [3]	Home assign [3]	Attendance [4]	Total [10]
	Average (obtained for Theory)				
	Average (allotted for Practical)	Viva [1.5]	Record [1.5]	Attendance [2]	Total [5]
	Average (obtained for Practical)				
Remarks of HOD:					
II SESSIONAL					
4	Pellets				
5	Parenteral Products & Ophthalmic Preparations				
6	Cosmetics, Pharmaceutical Aerosols & Packaging Material Sciences				
	Total				
	Average (allotted for Theory)	Class test [3]	Home assign [3]	Attendance [4]	Total [10]
	Average (obtained for Theory)				
	Average (allotted for Practical)	Viva [1.5]	Record [1.5]	Attendance [2]	Total [5]
	Average (obtained for Practical)				
Remarks of HOD:					

Sign. of Subject In-charge:

Sign. of Mentor:

Sign. of H.O.D



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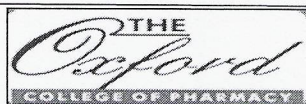
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CALENDER OF EVENTS-ACADEMIC YEAR 2020-2021

B. PHARM, M. PHARM, PHARM.D, PHARM.D(P.B)

1.	15 th JULY 2020	Commencement of Classes For, B. Pharm, M. Pharm, PharmD, PharmD (PB) except Ist Year of all course Commencement of Hospital Internship for VI PharmD and III PB students
2.	4 th WEEK OF SEPTEMBER 2020	I-Sessional Examination- I, III, V and VII Sem of B. Pharm (RS5)/ I and III Sem M. Pharm (RS5)
3.	4 th WEEK OF SEPTEMBER 2020	I-Sessional Examination of I to V Pharm D(RS2), II Pharm D PB(RS).
4.	3 rd WEEK OF OCTOBER 2020	Webinar by Department of Pharmacy practice
5.	2 nd WEEK OF NOVEMBER 2020	Soft skill Programme by Department of Pharmacology
6.	1 st WEEK OF DEC 2020 (10 th Dec 2020)	Inauguration & Orientation Commencement of Classes for I Year (Isem) B. Pharm & M. Pharm and I Year PharmD, I PharmD (PB)
7.	3 RD WEEK OF DEC 2020	RGUHS EXAM 2019-20 Batch B. Pharm, M. Pharm, PharmD
8.	4 TH WEEK OF DECEMBER	Webinar by Department of Pharmaceutics
9.	2 ND WEEK OF FEB 2021	FDP by Department of Pharmaceutical Chemistry
10.	1 st WEEK OF MARCH 2021	II Sessional Examination for I-V Pharm D, I & II Pharm D PB
11.	1 st WEEK OF MARCH 2021	II-Sessional Examination- I, III, V and VII Sem of B. Pharm (RS5)/ I and III Sem M. Pharm (RS5)
12.	2 ND WEEK OF MARCH 2021	Non-University subj. End semester Exam I Sem B. Pharm, III Sem M. Pharm
13.	4 TH WEEK OF MARCH 2021	RGUHS End Sem Exam - III, V and VII Sem of B. Pharm (RS5)/III Sem M. Pharm (RS5) & Supplementary Exam B. Pharm, M. Pharm, PharmD
14.	1 st WEEK OF MAY 2021	FDP by Department of Pharmacy Practice
15.	3 RD WEEK OF MAY 2021	Soft skill Programme by Department of Pharmacognosy
16.	4 TH WEEK OF MAY 2021	Life skill Programme by Departments of Pharmacognosy and Pharmacology
17.	4 TH WEEK OF MAY 2021	Workshop by Departments of Pharmacology and Pharmaceutics
18.	1 ST WEEK OF JUNE 2021	Guest Lecture by NSS
19.	2 ND WEEK OF JUNE 2021	Seminar by Departments of Pharmaceutics & Pharmacy practice
20.	3 RD WEEK OF JUNE 2021	Life skill Programme by NSS
21.	4 th WEEK OF JUNE 2021	Soft skill Programme by Department of Pharmaceutics
22.	4 TH WEEK OF JUNE 2021	I-Sessional Examination- II, IV and VI Sem of B. Pharm (RS5)/ II Sem M. Pharm (RS5)
23.	1 ST WEEK OF JUNE 2021	Guest Lecture by NSS



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24.	1 st WEEK OF JULY 2021	Guest Lecture by Department of Pharmaceutics
25.	2 nd WEEK OF JULY 2021	RGUHS End Sem Exam – I Sem of B. Pharm (RS5)/ I Sem MPharm (RS5)
26.	2 nd WEEK OF JULY 2021	FDP by Department of Pharmacology
27.	1 st WEEK OF JULY 2021	Soft skill Programme by Department of Pharmacology
28.	4 th WEEK OF JULY 2021	Webinar by Departments of Pharmaceutics & Pharmaceutical Chemistry
29.	1 ST WEEK OF AUG 2021	Last date for submission of M. Pharm IV Sem Dissertation /IA Marks to RGUHS
30.	2 ND WEEK OF AUG 2021	III Sessional Examination for I–V Pharm D, I & II Pharm D PB
31.	2 ND WEEK OF AUG 2021	FDP by Department of Pharmacy Practice
32.	3 RD WEEK OF SEP 2021	II-Sessional Examination- II, IV and VI Sem of B. Pharm (RS5)/ II Sem M. Pharm (RS5)
33.	2 ND WEEK OF AUG 2021	Last Working Day of Academic Year 2020-21 For I–V Pharm D(RS2), I & II Pharm D PB (RS)
34.	2 ND WEEK OF AUG 2021	Soft skill Programme by Department of Pharmacognosy
35.	4 TH WEEK OF AUG 2021	RGUHS semester Exam for M. Pharm (RS5) IV semester - Dissertation Evaluation
36.	3 RD WEEK OF SEP 2021	II-Sessional Examination- II, IV and VI Sem of B. Pharm (RS5)/ II Sem M. Pharm (RS5)
37.	4 th WEEK OF SEP 2021	Last Working Day of Academic Year 2020-21 For Semester B. Pharm and M. Pharm
38.	4 th WEEK OF SEP 2021	Finalization of Internal Assessment Marks for I–V Pharm D, I&II Pharm D PB and II/IV/VI semester B. Pharm (RS5) and II Sem M.Pharm (RS5)
39.	4 TH WEEK OF AUG 2021	Completion of Hospital internship of VI PharmD and III PB students
40.	2 nd WEEK OF SEP 2021	RGUHS semester Exam for B. Pharm (RS5) II/IV/VI Semester and M.Pharm (RS5) II semester
41.	2 nd WEEK OF SEP 2021	RGUHS Annual Exam for IV-year B. Pharm, I–V Pharm D, I & II Pharm D PB


Principal

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M. PHARM RS5 SEMESTER -I SESSIONAL EXAM (Internal Assessment) - I Date of Exam: 26/02/2021			
SUBJECT CODE:	MPG102T	TOTAL MARKS	30
SUBJECT NAME:	Phytochemistry	EXAM Hrs.	1 hour 10.00AM-11.00AM
COURSE OBJECTIVE: The Objective of this course is to			
<ul style="list-style-type: none"> Educate students to have sound knowledge in Pharmacognosy and phytochemistry of natural medicines and to attain skills required in Pharmacy profession and research with knowledge of natural product drug discovery and will be able to isolate, identify and extract the phyto-constituents. To understand the Industrial and commercial potential of drugs of natural origin, integrate traditional Indian systems of medicine with modern medicine and also to know regulatory and quality policy for the trade of herbals and drugs of natural origin. To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Research and development, Clinical research and also to pursue PhD. To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmacognosy and phytochemistry, Biotechnology, Pharmaceutical Analytical methods, Clinical research, Research methodology, Drug regulatory affairs, drug design etc. 			
I LONG ESSAYS (ANSWER ALL) 4X7.5 = 30 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Explain the isolation, purification and estimation of Quinine.	7.5	CO3	L2
2. Explain the biosynthetic pathway of strychnine and digitoxin.	7.5	CO1	L2
3. Describe the importance of HPTLC as a tool in phytochemical analysis with example.	7.5	CO4	L3
4. Explain different in-vitro and in-vivo methods for evaluation of hypolipidaemic activities.	7.5	CO5	L2
Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating			
COURSE OUTCOMES			
CO1 Know the various phytoconstituents and their properties & general process of natural product drug discovery			
CO2 TO know the process of identification, purification and isolation of phytoconstituents.			



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M. PHARM RS5 SEMESTER -I SESSIONAL EXAM (Internal Assessment) - II Date of Exam: 12/06/2021			
SUBJECT CODE:	MPG102T	TOTAL MARKS	30
SUBJECT NAME:	Phytochemistry	EXAM Hrs.	1 hour 10.00AM-11.00AM
<p>COURSE OBJECTIVE: The Objective of this course is to</p> <ul style="list-style-type: none"> Educate students to have sound knowledge in Pharmacognosy and phytochemistry of natural medicines and to attain skills required in Pharmacy profession and research with knowledge of natural product drug discovery and will be able to isolate, identify and extract the phyto-constituents. To understand the Industrial and commercial potential of drugs of natural origin, integrate traditional Indian systems of medicine with modern medicine and also to know regulatory and quality policy for the trade of herbals and drugs of natural origin. To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Research and development, Clinical research and also to pursue PhD. To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmacognosy and phytochemistry, Biotechnology, Pharmaceutical Analytical methods, Clinical research, Research methodology, Drug regulatory affairs, drug design etc. 			
I LONG ESSAYS (ANSWER ALL) 4X7.5 = 30 MARKS		Marks	Bloom's Taxonomy Level *
1. Explain the role of lead compound from anticancer drugs.		7.5	CO3 L2
2. Explain pharmacological screening methods for antiviral and antiulcer activity.		7.5	CO5 L2
3. Explain Flash column chromatography for extraction of plant constituents.		7.5	CO4 L3
4. Describe the protocol for extraction for phytochemical screening of fresh and dry drugs. Explain the tests for identification of various phytoconstituents		7.5	CO5 L2
<p>Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating</p>			
COURSE OUTCOMES			
CO1 Know the various phytoconstituents and their properties & general process of natural product drug discovery			
CO2 TO know the process of identification, purification and isolation of phytoconstituents			



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Course: M Pharm I Semester **Staff In-charge:** Dr Padmaa M Paarakh **Student Name:**

Subject: Phytochemistry

Reg: No:

S. No	Name of the Chapter	Class test Date/mark (10)	Assignment Date/mark (10)	Seminar Date / Mark (10)	Regular Practical Viva Date/mark (10)	Marks	Sign
I SESSIONAL							
1.	Isolation, characterization, TLC and estimation methods of different secondary metabolite						
2.	HPTLC and LCMS/GCMS of different secondary metabolite						
3.	Pharmacological screening for different diseases						
		Total Marks (Out of 30)	Average (Out of 2 marks)	Attendance (8 marks)	Total (10 marks)		
Total Marks obtained in Theory							
		Total Marks (Out of 30)	Average (Out of 10 marks)	Attendance (4 marks)	Total (14 marks)		
Total Marks obtained in Assignment							
		Total Marks (Out of 30)	Average (Out of 10 marks)	Attendance (4 marks)	Total (14 marks)		
Total Marks obtained in Seminar							
		Record (2.5 Marks)	Regular Viva (2.5 marks)	Attendance (10 marks)	Total (15 marks)		
Total Marks obtained in Practical							

Remarks of HOD:

II SESSIONAL							
4.	Pharmacological screening for different diseases						
5.	Extraction method						
6.	Drug discovery process						
		Total Marks (Out of 30)	Average (Out of 2 marks)	Attendance (8 marks)	Total (10 marks)		
Total Marks obtained in Theory							
		Total Marks (Out of 30)	Average (Out of 10 marks)	Attendance (4 marks)	Total (14 marks)		
Total Marks obtained in Assignment							
		Total Marks (Out of 30)	Average (Out of 10 marks)	Attendance (4 marks)	Total (14 marks)		
Total Marks obtained in Seminar							
		Record (2.5 Marks)	Regular Viva (2.5 marks)	Attendance (10 marks)	Total (15 marks)		
Total Marks obtained in Practical							

Remarks of HOD:

Sign. of Subject In-charge:

Sign. of Mentor:

Sign. of H.O.D



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PHARM.D RS2 YEAR - III

SESSIONAL EXAM (Internal Assessment)- I

Date of Exam : 01/10/2020

SUBJECT CODE:	PHAD2B06Th	TOTAL MARKS	30
SUBJECT NAME:	PHARMACOTHERAPEUTICS - 1	EXAM Hrs.	02:00-03:30 PM

COURSE OBJECTIVE: The Objective of this course is to

- Educate students to have sound knowledge and to impart skills necessary for contribution to quality use of medicines, pathophysiology and therapeutics of various diseases. To enable the student to understand the pathophysiology of common diseases and their management in pharmaceutical sciences and to attain skills required in pharmacy profession.
- To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Community and Hospital Pharmacy, Pharmacovigilance, Clinical research and also to pursue higher studies.
- To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmacotherapeutics, Pathophysiology, Pharmaceutical formulations, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins.

I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Discuss management of RA with Treatment algorithm. Explain the risk factors and complications of RA	10	CO 1	L2
2. Define CRF. explain pharmacotherapy of CRF	10	CO 1	L1
ii Short Essays (Answer Any Two) 2x5 = 10 Marks			
3. discuss in detail pathophysiology of Gout	5	CO 1	L1
4. Define osteoarthritis write etiology, signs and symptoms	5	CO 1	L2
5. Explain hemodialysis and its mechanism	5	CO 2	L1
iii Short Answers (Answer All) 5x2 = 10 Marks			
6. Define peritoneal dialysis and its advantages	2	CO 2	L1
7. Explain the role of NSAIDs in RA	2	CO 1	L1
8. Clinical features of Gout	2	CO 1	L2
9. Write the risk factors of ARF	2	CO 3	L1
10. Enlist the diagnostic tests used in SLE	2	CO 3	L1

Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

CO1 Know the pathophysiology of selected disease states and the rationale for drug therapy
 CO2 Know the therapeutic approach to management of these diseases;
 CO3 Know the controversies in drug therapy;
 CO4 Know the importance of preparation of individualized therapeutic plans based on diagnosis; and
 CO5 Appreciate the needs to identify the patient-specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effects).



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III-PHARM D SESSIONAL EXAM (Internal Assessment) - II Date of Exam: 04/03/2021			
PHAD2C0Th	TOTAL MARKS	30	
PHARMACOTHERAPEUTICS II	EXAM HRS.	1 hour 30min. 10.00-11.30am	
<p>COURSE OBJECTIVE: The Objective of this course is to</p> <ul style="list-style-type: none"> Educate students to have sound knowledge and to impart skills necessary for contribution to quality use of medicines, pathophysiology and therapeutics of various diseases. To enable the student to understand the pathophysiology of common diseases and their management in pharmaceutical sciences and to attain skills required in pharmacy profession. To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of community and hospital pharmacy, pharmacovigilance, clinical research and also to pursue higher studies. To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmacotherapeutics, Pathophysiology, Pharmaceutical formulations, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins. 			
I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Blooms level
1. Explain the Pathophysiology and Management of tuberculosis.	10	CO(1)	L2
2. Classify Respiratory tract infections. Explain the management of acute bronchitis and pneumonia.	10	CO(3)	L1
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. Explain the pathogenesis and management of Rheumatoid arthritis.	5	CO(1)	L1
4. Write the risk factors and management of gout.	5	CO(1)	L2
5. Explain the clinical manifestations and management of SLE.	5	CO(1)	L1
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
6. Define Nuchal rigidity.	2	CO(5),	L1
7. Explain the role of chondroprotective agents in osteoarthritis.	2	CO(1)	L2
8. Write any four criteria for the selection of antimicrobials.	2	CO(2)	L3
9. What is Heaf test?	2	CO(1)	L1
10. Which are the drugs which induces SLE.	2	CO(1)	L2
<p>Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating</p>			
COURSE OUTCOMES			
<p>CO1 Know the pathophysiology of selected disease states and the rationale for drug therapy CO2 Know the therapeutic approach to management of these diseases; CO3 Know the controversies in drug therapy; CO4 Know the importance of preparation of individualized therapeutic plans based on diagnosis; and CO5 Appreciate the needs to identify the patient-specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effects).</p>			



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Course: III Pharm D

Subject: PCTH II

Student Name:

Subject in-charge:

Reg No:

SL. NO	NAME OF TOPIC	HOME ASSIGNMENT	CLASS TEST	VIVA	MARKS	SIGN
I SESSIONAL						
1.	Musculoskeletal disorder- RA, OA, Gout					
2.	Guidelines for rational drug use of antibiotics & surgical prophylaxis					
3.	Infectious disease-TB, RTI, Meningitis					
TOTAL MARKS (OUT OF 90)						
CPA marks to be added for practical(OUT OF 4 MARKS)						
REMARKS OF HOD:						
II SESSIONAL						
4.	Infectious disease-Gastroenteritis, UTI					
5.	Renal disorder- ARF,CRF,Dialysis, drug induced renal disorder					
6.	Dermatology – psoriasis , scabies, eczema , impetigo					
TOTAL MARKS (OUT OF 90)						
CPA marks to be added for practical(OUT OF 4 MARKS)						
REMARKS OF HOD:						
III SESSIONAL						
7.	Oncology – General introduction , principles of cancer therapy					
8.	Breast cancer, leukemia , CINV					
9.	Infectious disease – Protozoal ,HIV STD					
TOTAL MARKS (OUT OF 90)						
CPA marks to be added for practical(OUT OF 4 MARKS)						
AVERAGE (3 SESSIONAL)						
REMARKS OF HOD:						
SIGNATURE OF		SIGNATURE OF MENTOR		SIGNATURE OF H.O.D SUBJECT IN-CHARGE		



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B. PHARM RS5 SEMESTER - III SESSIONAL EXAM (Internal Assessment) – I Date of Exam: 28/09/2020			
SUBJECT CODE:	BP301T	TOTAL MARKS	30
SUBJECT NAME:	Pharmaceutical Organic Chemistry-II	EXAM Hrs.	1 hour 10.00AM-11.00AM
<ul style="list-style-type: none"> COURSE OBJECTIVE: The Objective of this course is To Educate students to have sound knowledge in pharmaceutical sciences and to attain skills required in pharmacy profession. To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Community and Hospital Pharmacy and also to pursue higher studies. To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmaceutical formulation & development, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins. 			
I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS		Marks	CO
1. Explain nitration and sulphonation reactions of benzene with its mechanism?		10	CO 2
2. Explain briefly acidity of phenol and effect of substituent on acidity of phenol?		10	CO 3
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. Explain hydrolysis and hydrogenation reactions of fats and oils?		5	CO 5
4. Explain the principle, procedure with formula and reaction involved in the determination of acid value?		5	CO 5
5. Explain the principle, procedure with formula and reaction involved in the determination of acetyl value?		5	CO 5
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
6. Write the structure and uses of DDT?.		2	CO 1
7. Write the structure and uses of Saccharin?.		2	CO 1
8. Define Iodine value?.		2	CO 5
9. Write any two qualitative tests for Phenol?.		2	CO 3
10. Define ring activator??. Give examples		2	CO 3
Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating			
COURSE OUTCOMES			
CO1 Write the structure, name and the type of isomerism of the organic compound			
CO2 Write the reaction, name the reaction and orientation of reactions			
CO3 Account for reactivity/stability of compounds,			
CO4 Prepare organic compounds			



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B. PHARM RS5 SEMESTER - III SESSIONAL EXAM (Internal Assessment) – II Date of Exam: 22/02/2021			
SUBJECT CODE:	BP301T	TOTAL MARKS	30
SUBJECT NAME:	Pharmaceutical Organic Chemistry-II	EXAM Hrs.	1 hour 10.00AM-11.00AM
COURSE OBJECTIVE: The Objective of this course is			
<ul style="list-style-type: none"> To Educate students to have sound knowledge in pharmaceutical sciences and to attain skills required in pharmacy profession. To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Community and Hospital Pharmacy and also to pursue higher studies. To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmaceutical formulation & development, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins. 			
I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Bloom's Taxonomy Level *
Explain Haworth synthesis of Anthracene? Explain nitration, sulfonation, oxidation, Friedel-Craft Acylation, & Diels-Alder reactions of Anthracene?	10	CO 2	L1, L2
2. Explain briefly Baeyer strain theory and its limitations?	10	CO 3	L1, L2, L3
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. Explain reduction, oxidation & chloromethylation reactions of Naphthalene?.	5	CO 3	L1, L2
4. Explain Bucherer reaction, Azo-coupling, Sulfonation and Oxidation reaction of 1-Naphthol?	5	CO 3	L1, L2
5. Explain Sachse-Mohr theory (theory of strainless rings).	5	CO 3	L1, L2, L3
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
6. Explain Bucherer reaction, Azo-coupling, Sulfonation and Oxidation reaction of 1-Naphthol?	2	CO 3	L1, L2
7. Explain Friedel-Craft synthesis of Anthracene?	2	CO 3	L1, L2
8. Explain the nitration reaction of Anthraquinone?	2	CO 3	L1, L2
9. Explain Dieckmann (reaction) method of preparation of cycloalkanes?	2	CO 3	L1, L2
10. Explain ring opening reactions (reaction with Br, HBr & H) of cyclopropane?	2	CO 3	L1, L2
Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge) , L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating			
COURSE OUTCOMES			
CO1 Write the structure, name and the type of isomerism of the organic compound			
CO2 Write the reaction, name the reaction and orientation of reactions			
CO3 Account for reactivity/stability of compounds,			
CO4 Prepare organic compounds			



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Course: B.Pharm III-Semester

Student Name:

Subject: Pharmaceutical Organic Chemistry-II

Reg: No:

Staff In-charge: Dr. G. Nagalakshmi.

S.No	TOPIC	Class Test [10]	Home Assign [10]	Viva [10]	Sign
I SESSIONAL					
1.	Benzene and its derivatives				
2.	Phenols, Aromatic Amines, Aromatic Acids.				
3	Fats and Oils.				
	Total				
	Average (allotted for Theory)	Class test [3]	Home assign [3]	Attendance [4]	Total [10]
	Average (obtained for Theory)				
	Average (allotted for Practical)	Viva [1.5]	Record [1.5]	Attendance [2]	Total [5]
	Average (obtained for Practical)				
II SESSIONAL					
4	Polynuclear hydrocarbons- Naphthalene, Anthracene.				
5	Polynuclear hydrocarbons- Phenanthrene, DPM, TPM.				
6	Cycloalkanes.				
	Total				
	Average (allotted for Theory)	Class test [3]	Home assign [3]	Attendance [4]	Total [10]
	Average (obtained for Theory)				
	Average (allotted for Practical)	Viva [1.5]	Record [1.5]	Attendance [2]	Total [5]
	Average (obtained for Practical)				

Sign. of subject Incharge:

Sign. of Mentor:

Sign. of H.O.D:



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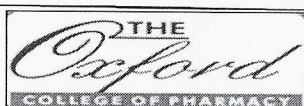
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CALENDER OF EVENTS-ACADEMIC YEAR 2019-2020

B. PHARM, M. PHARM, PHARM.D, PHARM.D(P.B)

1.	24 th JULY 2019	Commencement of Classes For, B, Pharm, M. Pharm, PharmD, PharmD (PB) except 1 st Year of all course Commencement of Hospital Internship for VI PharmD and III PB students
2.	1 st WEEK OF AUGUST 2019 (5 th Aug 2019)	Inauguration & Orientation Commencement of Classes for I Year (Isem) B. Pharm, M. Pharm and I Year PharmD, PharmD (PB)
3.	4 th WEEK OF SEPTEMBER 2019	Faculty development program by Department of Pharmaceutical Chemistry
4.	4 th WEEK OF SEPTEMBER 2019	Workshop by Department of Pharmaceutics
5.	2 ND WEEK OF OCTOBER 2019	I-Sessional Examination- I, III and V Sem of B. Pharm (RS5)/ I and III Sem M. Pharm (RS5)
6.	3 RD WEEK OF OCTOBER 2019	I-Sessional Examination of IV B Pharm (RS4), I to V Pharm D (RS2), I & II Pharm D PB (RS).
7.	1 ST WEEK OF NOVEMBER 2019	Seminar by Pharmacy Practice
8.	4 TH WEEK OF NOVEMBER 2019	RGUHS Supplementary Exam of B. Pharm, M. Pharm, Pharm.D
9.	2 nd WEEK OF DECEMBER 2019	II-Sessional Examination- I, III and V Sem of B. Pharm (RS5)/ I and III Sem M. Pharm (RS5)
10.	4 TH WEEK OF DECEMBER 2019	RGUHS B. Pharm and M. Pharm (RS5) I/III Semester Exam
11.	4 TH WEEK OF DECEMBER 2019	Seminar by Department of Pharmaceutics
12.	2 ND WEEK OF JANUARY 2020	II/IV/VI Semester Classes begin for B. Pharm and II/IV Sem for M.Pharm (RS5)
13.	3 RD WEEK OF JANUARY 2020	Faculty development program by Dept. Pharmacy Practice
14.	1 ST WEEK OF FEBRUARY 2020	II-Sessional Examination for IV-year B Pharm (RS4), I-V Pharm D(RS2), I & II Pharm D PB(RS).
15.	2 nd WEEK OF FEBRUARY 2020	Seminar by Department of Pharmacognosy
16.	4 TH WEEK OF MARCH 2020	I-Sessional Examination- II, IV and VI Sem of B. Pharm (RS5)/ II Sem M. Pharm (RS5)
17.	4 TH WEEK OF MARCH 2020 (31 ST MARCH 2020)	Last date for submission of M. Pharm IV Sem Dissertation to RGUHS
18.	3 RD WEEK OF APRIL 2020	III Sessional Examination for IV-year B. Pharm, I-V Pharm D, I & II Pharm D PB
19.	3 RD WEEK OF APRIL 2020	Faculty development program by Department of Pharmaceutical Chemistry
20.	4 TH WEEK OF APRIL 2020	II-Sessional Examination- II, IV and VI Sem of B. Pharm (RS5)/ II Sem M. Pharm (RS5)
21.	1 ST WEEK OF MAY 2020	Finalization of Internal Assessment Marks for IV-year BPharm, I-V Pharm D, I&II Pharm D PB and II/IV/VI semester B. Pharm (RS5) and II



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		Sem M. Pharm (RS5)
22.	2 ND WEEK OF MAY 2020	Last Working Day of Academic Year 2019-20 For IV-year B. Pharm (RS4), I-V Pharm D(RS2), I & II Pharm D PB (RS) and II/IV/VI Semester B. Pharm (RS5) and II Sem M. Pharm (RS5)
23.	4 th WEEK OF MAY 2020	RGUHS semester Exam for B. Pharm (RS5) II/IV/VI Semester and M.Pharm (RS5) II semester
24.	4 th WEEK OF MAY 2020	RGUHS Annual Exam for IV-year B. Pharm, I-V Pharm D, I & II Pharm D PB
25.	3 rd WEEK OF JUNE 2020	Seminar by Department of Pharmacology
26.	2 nd WEEK OF JULY 2020	Faculty development program by Department of Pharmacognosy
27.	3 rd WEEK OF JULY 2020	Completion of Hospital internship of VI PharmD and III PB students

P. Padma
Principal

PRINCIPAL
The Oxford College Of Pharmacy
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Bangalore - 560 068



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M. PHARM (PHARMACOLOGY) RS5 – I SEMESTER

SESSIONAL EXAM (Internal Assessment)- I

Date of Exam: 10/10/2019

SUBJECT CODE:	MPL101T	TOTAL MARKS	30
SUBJECT NAME:	Advanced Pharmacology-I	EXAM HRS.	1 hour 2.00 to 3.00 PM

COURSE OBJECTIVE: The Objective of this course is to

Produce postgraduates with advanced knowledge and understanding of pharmacology; higher order critical, analytical, problem solving and transferable skills.

Uphold all laws, regulations, safety and ethical standards that apply to the experimental procedures in animals and the environment as well as to impart adequate hands-on training in various animal models and determine the effects of drugs using animal models

Provide practical inputs in pharmacokinetic studies of various drugs and formulations in animals to establish in-vitro and in-vivo correlations and prepare the students in teamwork, lifelong learning and continuous improvement.

I. LONG ESSAYS (ANSWER ANY TWO) 2X10 = 20 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Define and classify receptors. Explain GPCR family	10	CO3	L1
2. What are the factors affecting the absorption and distribution of drugs. Add a note on significance of protein binding.	10	CO3	L2
3. Classify adrenergic agonist with suitable examples. Explain the MOA, ADR and Pharmacology of adrenaline	10	CO3	L1
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
4. Explain the role of phase-I & II biotransformation of drugs.	5	CO3	L1
5. Explain neurohumoral GABA transmission	5	CO3	L2
6. Write a note on Parasympathomimetics	5	CO5	L2

Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

CO1	Discuss the pathophysiology and pharmacotherapy of certain diseases
CO2	Explain the mechanism of drug actions at cellular and molecular level
CO3	Understand the adverse effects, contraindications and clinical uses of drugs used in treatment of diseases



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M. PHARM (PHARMACOLOGY) RS5 – I SEMESTER

SESSIONAL EXAM (Internal Assessment)- II

Date of Exam: 11/12/2019

SUBJECT CODE:	MPL101T	TOTAL MARKS	30
SUBJECT NAME:	Advanced Pharmacology-I	EXAM HRS.	1 hour 2.00 to 3.00 PM

COURSE OBJECTIVE: The Objective of this course is to

Produce postgraduates with advanced knowledge and understanding of pharmacology; higher order critical, analytical, problem solving and transferable skills.

Uphold all laws, regulations, safety and ethical standards that apply to the experimental procedures in animals and the environment as well as to impart adequate hands-on training in various animal models and determine the effects of drugs using animal models

Provide practical inputs in pharmacokinetic studies of various drugs and formulations in animals to establish in-vitro and in-vivo correlations and prepare the students in teamwork, lifelong learning and continuous improvement.

LONG ESSAYS (ANSWER ANY TWO) 2X10 = 20 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Define and classify receptors. Explain GPCR family	10	CO3	L1
2. What are the factors affecting the absorption and distribution of drugs. Add a note on significance of protein binding.	10	CO3	L2
3. Classify adrenergic agonist with suitable examples. Explain the MOA, ADR and Pharmacology of adrenaline	10	CO3	L1
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
4. Explain the role of phase-1 & II biotransformation of drugs.	5	CO3	L1
5. Explain neurohumoral GABA transmission	5	CO3	L2
6. Write a note on Parasympathomimetics	5	CO5	L2

Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

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Course: M Pharm I Semester

Subject: Advance Pharmacology-I (MPL101T)

Student name: _____

Staff In charge: _____

S. No	Name of the Chapter	Class test Date/mark (10)	Assignment Date/mark (10)	Seminar Date / Mark (10)	Regular Practical Viva Date/mark (10)	Marks	Sign
I SESSIONAL							
1.	General Pharmacology						
2.	Neurotransmission, Systemic and Autonomic Pharmacology						
3.	Central nervous system Pharmacology (Half Portion)						
		Total Marks (Out of 30)	Average (Out of 2marks)		Attendance (8 marks)	Total (10 marks)	
Total Marks obtained in theory							
		Total Marks (Out of 30)	Average (Out of 10 marks)		Attendance (4 marks)	Total (14 marks)	
Total Marks obtained in Assignment							
		Total Marks (Out of 30)	Average (Out of 10 marks)		Attendance (4 marks)	Total (14 marks)	
Total Marks obtained in Seminar							
		Record (2.5 marks)	Regular viva (2.5 marks)		Attendance (10 marks)	Total (15 marks)	
Total Marks obtained in practical of Pharmacology -I							
II SESSIONAL							
4.	Central nervous system Pharmacology (Half Portion)						
5.	Cardiovascular Pharmacology						
6.	Autacoids Pharmacology						
		Total Marks (Out of 30)	Average (Out of 2marks)		Attendance (8 marks)	Total (10 marks)	
Total Marks obtained in theory							
		Total Marks (Out of 30)	Average (Out of 10 marks)		Attendance (4 marks)	Total (14 marks)	
Total Marks obtained in Assignment							
		Total Marks (Out of 30)	Average (Out of 10 marks)		Attendance (4 marks)	Total (14 marks)	
Total Marks obtained in Seminar							
		Record (2.5 marks)	Regular viva (2.5 marks)		Attendance (10 marks)	Total (15 marks)	
Total Marks obtained in practical of Pharmacology -I							

Signature of Subject In-charge.

Signature of Mentor

Signature of H.O.D



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II-PHARM D

SESSIONAL EXAM (Internal Assessment)-I

Date of Exam: 14/10/2019

SUBJECT CODE:	PHAD2A03Th, 2853	TOTAL MARKS	30
SUBJECT NAME:	PATHOPHYSIOLOGY	EXAM Hrs.	1.30 hour 10.00 to 11.30 AM

COURSE OBJECTIVE: The Objective of this course is to

- **Educate** students to have sound knowledge and to impart skills necessary for contribution to quality use of medicines, pathophysiology and therapeutics of various diseases. To enable the student to understand the pathophysiology of common diseases and their management in pharmaceutical sciences and to attain skills required in pharmacy profession.
- To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Community and Hospital Pharmacy, Pharmacovigilance, Clinical research and also to pursue higher studies.
- To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmacotherapeutics, Pathophysiology, Pharmaceutical formulations, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins.

I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Describe the pathogenesis of reversible cell injury induced by hypoxia/ ischemia.	10	CO 1	L1
2. What are the various cellular events in acute inflammation?	10	CO 1	L1
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. Write a note on type II hypersensitivity reaction?	5	CO 2	L2
4. What is healing by secondary intention?	5	CO 2	L1
5. Describe the pathogenesis of secondary infection?	5	CO 1	L1
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
6. What is the role of histamine in acute inflammation?	2	CO 1	L1
7. What is Allograft?	2	CO 1	L1
8. What is Anaplasia and Dysplasia?	2	CO 2	L2
9. What is Prompe's disease?	2	CO 2	L1
10. What is Rheumatoid arthritis?	2	CO 1	L1

Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

CO1 Describe the etiology and pathogenesis of the selected disease states;
CO2 Name the signs and symptoms of the diseases; and
CO3 Mention the complications of the diseases.



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II-PHARM D

SESSIONAL EXAM (Internal Assessment)-II

Date of Exam: 03/02/2020

SUBJECT CODE:	PHAD2A03Th, 2853	TOTAL MARKS	30
SUBJECT NAME:	PATHOPHYSIOLOGY	EXAM Hrs.	1.30 hour 10.00 to 11.30 AM

COURSE OBJECTIVE: The Objective of this course is to Educate students to have sound knowledge and to impart skills necessary for contribution to quality use of medicines, pathophysiology and therapeutics of various diseases. To enable the student to understand the pathophysiology of common diseases and their management in pharmaceutical sciences and to attain skills required in pharmacy profession.

To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Community and Hospital Pharmacy, Pharmacovigilance, Clinical research and also to pursue higher studies.

To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmacotherapeutics, Pathophysiology, Pharmaceutical formulations, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins.

I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Write the mechanism of invasion of tumor.	10	CO 1	L1
2. Describe the etiology, pathogenesis and diagnosis of asthma.	10	CO 1	L1
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. Describe the cause and pathogenesis of parkinsonism?	5	CO 2	L2
4. Write a note on pattern of spread of cancer.	5	CO 2	L1
5. Explain how Alcoholic liver disease and liver Cirrhosis developed	5	CO 1	L1
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
6. What is Neoplasia?	2	CO 1	L1
7. Complications of diabetes mellitus	2	CO 1	L1
8. How do you grade cancer?	2	CO 2	L2
9. Define IBD and give two examples.	2	CO 2	L1
10. Write four contrasting features of benign and malignant tumour.	2	CO 1	L1

Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

CO1 Describe the etiology and pathogenesis of the selected disease states;

CO2 Name the signs and symptoms of the diseases; and

CO3 Mention the complications of the diseases.



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Course: II Pharm D

Subject: Pathophysiology

Student Name:

Staff In-charge:

S. No.	Name of Chapter	Class Test Date/ Marks (10)	Home Assig. Date/ Marks (10)	Viva Date/ Mark (10)	Marks	Sign
I SESSIONAL						
1.	Basic principles of cell injury and Adaptation					
2.	Inflammation					
3.	Diseases of Immunity					
Total Marks (Out of 90)						
Average (Out of 4 Marks)						
II SESSIONAL						
4.	Cancer					
5.	Shock					
6.	Radiation					
Total Marks (Out of 90)						
Average (Out of 4 Marks)						
III SESSIONAL						
7.	Environmental and nutritional diseases					
8.	Pathophysiology of common diseases					
9.	Infectious diseases					
Total Marks (Out of 90)						
Average (Out of 4 Marks)						
Average (For 3 Sessional)						

Signature of Subject In-charge

Signature of Mentor

Signature of H.O.D



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B. PHARM RS5 SEMESTER - I			
SESSIONAL EXAM (Internal Assessment) – I			
Date of Exam: 10/10/2019			
SUBJECT CODE:	BP102T	TOTAL MARKS	30
SUBJECT NAME:	PHARMACEUTICAL ANALYSIS I	EXAM Hrs.	1 hour 10.00AM-11.00AM
COURSE OBJECTIVE: The Objective of this course is to			
<ul style="list-style-type: none"> • Educate students to have sound knowledge in pharmaceutical sciences and to attain skills required in pharmacy profession. • To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Community and Hospital Pharmacy and also to pursue higher studies. • To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmaceutical formulation & development, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins 			
I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Explain the preparation and standardization procedure for following a) Ceric ammonium sulphate b) Sodium Thiosulphate	10	CO 1	L1
2. Define Pharmaceutical analysis and describe the different techniques of analysis	10	CO 1	L1
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. What are indicators. Explain the theory of indicators used in acid-base titrations.	5	CO 1	L4
4. What is significant figure. Explain with examples.	5	CO 4	L2
5. Define Acidimetry and explain about estimation of Ephedrine Hydrochloride	5	CO 2	L1
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
6. How can you standardize 0.1N Sodium hydroxide	2	CO 2	L2
7. Define Molecular weight and Normality	2	CO 1	L1
8. Calculate Molecular weight of following: a) Oxalic acid b) Sodium hydroxide	2	CO 1	L1
9. Define qualitative analysis and quantitative analysis	2	CO 2	L2
10. Define Accuracy and Precision	2	CO 3	L2
Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating			
COURSE OUTCOMES			
CO1 To understand the principles of volumetric and electro chemical analysis			
CO2 To carryout various volumetric and electrochemical titrations			
CO3 To develop analytical skills.			



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B. PHARM RS5 SEMESTER - I			
SESSIONAL EXAM (Internal Assessment) – II			
Date of Exam: 10/12/2019			
SUBJECT CODE:	BP102T	TOTAL MARKS	30
SUBJECT NAME:	PHARMACEUTICAL ANALYSIS I	EXAM Hrs.	1 hour 10.00AM-11.00AM
COURSE OBJECTIVE: The Objective of this course is to			
<ul style="list-style-type: none"> • Educate students to have sound knowledge in pharmaceutical sciences and to attain skills required in pharmacy profession. • To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Community and Hospital Pharmacy and also to pursue higher studies. • To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmaceutical formulation & development, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins 			
I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Explain the principle and classification involved in complexometric titrations. Write about masking and demasking agents	10	CO 1	L1
2. What is Gravimetry? Explain in detail the steps involved in gravimetric methods of analysis.	10	CO 1	L1
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. What are indicator electrodes. Explain construction and working of any two indicator electrodes.	5	CO 1	L4
4. Explain Co precipitation and post precipitation. Explain the estimation of Barium sulphate	5	CO 4	L2
5. What are the methods to determine the end point of potentiometric titrations and write its applications.	5	CO 2	L1
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
6. What is electrode potential and explain by Nernst equation	2	CO 2	L2
7. Write the principle involved in Diazotization titration.	2	CO 1	L1
8. Define Conductance, Equivalent conductance, Resistance. write suitable formulae with units	2	CO 1	L1
9. How can you standardize ceric sulphate by cerimetry titration	2	CO 2	L2
10. What is the difference between direct titration	2	CO 3	L2
Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating			
COURSE OUTCOMES			
CO1 To understand the principles of volumetric and electro chemical analysis			
CO2 To carryout various volumetric and electrochemical titrations			
CO3 To develop analytical skills			



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Course: B Pharm I Semester

Subject: Pharmaceutical Analysis

Staff In-charge:

Student Name:

Reg: No:

S.No	TOPIC	Class Test [10]	Home Assign. [10]	Viva [10]	Signature
I SESSIONAL					
1	Pharmaceutical Analysis & Errors				
2	Acid Base Titration Non Aqueous Titration				
3	Precipitation titration Complexometric titration				
	Total				
	Average (allotted for Theory)	Class test [3]	Home assign [3]	Attendance [4]	Total [10]
	Average (obtained for Theory)				
	Average (allotted for Practical)	Viva [1.5]	Record [1.5]	Attendance [2]	Total [5]
	Average (obtained for Practical)				
Remarks of HOD:					
II SESSIONAL					
4	Gravimetric Analysis				
5	Redox titration				
6	Electrochemical methods of analysis				
	Total				
	Average (allotted for Theory)	Class test [3]	Home assign [3]	Attendance [4]	Total [10]
	Average (obtained for Theory)				
	Average (allotted for Practical)	Viva [1.5]	Record [1.5]	Attendance [2]	Total [5]
	Average (obtained for Practical)				
Remarks of HOD:					

Sign. of Subject In-charge:

Sign. of Mentor:

Sign. of H.O.D



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CALENDER OF EVENTS-ACADEMIC YEAR 2018-2019

B. PHARM, M. PHARM, PHARM.D, PHARM.D(P.B)

1	30 th JULY 2018	Commencement of Classes for B. Pharm, M. Pharm, Pharm D, Pharm D(PB) except 1 st Year of all course
2	2 ND WEEK OF AUGUST 2018 (8 TH AND 9 TH Aug 2018)	Inauguration & Orientation Commencement of Classes for I Year (Isem) B. Pharm, M. Pharm and I Year PharmD, Pharm D (PB)
3	2 ND WEEK OF AUGUST 2018	Faculty development program by Department of Pharmaceutical chemistry
4	3 RD Week of SEP 2018	Guest Lecture by Department of Pharmaceutics
5	4 th Week of SEP 2018	Seminar by Department of Pharmaceutical Chemistry
6	1 st WEEK OF OCTOBER 2018	I and III Sem/I-Sessional Examination of BPharm, M. Pharm (RS5)
7	2 nd WEEK OF OCTOBER 2018	I-Sessional Examination of III-IV B Pharm (RS4), I-V PharmD(RS2), I & II PharmD PB(RS).
8	4 th WEEK OF OCTOBER 2018	Seminar by Department of Pharmaceutics
9	4 TH WEEK OF NOVEMBER 2018	RGUHS Supplementary Exam for B. Pharm, M. Pharm, PharmD
10	2 ND WEEK OF DECEMBER 2018	I and III sem / II-Sessional Examination of B. Pharm, M. Pharm (RS5)
11	4 TH WEEK OF DECEMBER 2018	RGUHS B. Pharm and M. Pharm (RS5) I/III Semester Exam
12	2 ND WEEK OF JANUARY 2019	II Semester Classes begins for B. Pharm and M. Pharm (RS5)
13	2 ND WEEK OF JANUARY 2019	Faculty development program by Department of Pharmaceutics.
14	2 ND WEEK OF JANUARY 2019	Seminar by Department of Pharmacognosy
15	3 rd week of JANUARY 2019	Guest Lecture by Department of Pharmaceutics
16	4 TH WEEK OF JANUARY 2019	II-Sessional Examination for III-IV B Pharm (RS4), I-V PharmD(RS2), I & II Pharm D PB(RS).
17	2 ND WEEK OF FEB 2019	Guest Lecture by Department of Pharmacognosy
18	1 st WEEK OF MARCH 2019	Soft skill program by Department of Pharmacognosy
19	3 RD WEEK OF MARCH 2019	Guest Lecture by Department of Pharmacology
20	3 RD WEEK OF MARCH 2019	Counseling program for I year students



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21	4 TH WEEK OF MARCH 2019	II and IV th Sem/I Sessional Exam of B.Pharm, M.Pharm (RS5)
22	3 RD WEEK OF APRIL 2019	III Sessional Examination for II-IV B. Pharm, I-V Pharm D, I & IIPharm D PB
23	3 RD WEEK OF APRIL 2019	Guest Lecture by Department of Pharmacy Practice
24	4 TH WEEK OF APRIL 2019	II and IV th sem /II Sessional Exam BPharm, M. Pharm (RS5)
25	1 ST WEEK OF MAY 2019	Finalization of Internal Assessment Marks for III-IV BPharm, I-V Pharm D, I&II Pharm D PB
26	2 ND WEEK OF MAY 2019	Last Working Day of Academic Year 2018-19 For III-IV year B. Pharm, I-V Pharm D, I & II Pharm D PB and II/IV semester B.Pharm and M.Pharm (RS5)
27	2 ND WEEK OF MAY 2019	Workshop by Department of Pharmacognosy
28	3 RD WEEK OF MAY 2019	Faculty development program by Department of Pharmacognosy
29	3 RD WEEK OF MAY 2019	Seminar by Department of Pharmacy Practice
30	4 th WEEK OF MAY 2019	Finalization of Internal Assessment Marks for Even Sem M. Pharm and B. pharm
31	4 th WEEK OF MAY 2019	Submission of M. Pharm Dissertation to RGUHS
32	1 ST WEEK OF JUNE 2019	RGUHS B. Pharm and M. Pharm (RS5) II/IV Semester Exam
33	1 ST WEEK OF JUNE 2019	RGUHS Annual Exam For III-IV B. Pharm, I-V Pharm D, I & IIPharm D PB
34	3 RD WEEK OF JULY 2019	Completion of Hospital internship of VI Pharm D and III PB students


Principal

PRINCIPAL

The Oxford College Of Pharmacy
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Bangalore - 560 068



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M.PHARM RS5 BRANCH: PHARMACEUTICS SEMESTER - I
SESSIONAL EXAM (Internal Assessment) - I
Date of Exam: 04/10/2018

SUBJECT CODE:	MPH102T	TOTAL MARKS	30
SUBJECT NAME:	MODERN PHARMACEUTICS	EXAM Hrs.	1 hr 10.00 to 11.00 AM

COURSE OBJECTIVE: The Objective of this course is to Educate students to have sound knowledge in Pharmaceutical formulation & development and to attain skills required in pharmacy profession.
 To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Research and formulation development and also to pursue PhD.
 To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmaceutics, Cosmetics, Pharmaceutical Analysis, Drug regulatory affairs, drug design etc.

I. LONG ESSAYS (ANSWER ANY TWO) 2X10 = 20 MARKS	Marks	CO	Bloom's Taxonomy Level *
Explain in detail composition & stability aspects of SMEDDs.	10	CO 5	L1
Discuss in detail about ICH guidelines for validation of equipment.	10	CO 5	L2
Write a note on optimization parameters and classical optimization.	10	CO 4	L3
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
Explain in detail various types of validation.	5	CO4	L2
Write a note on history of computers.	5	CO 1	L1
Write a note on factorial design and its applications.	5	CO 1	L1

Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

- CO1--- To understand the elements of preformulation studies.
- CO2--- To understand the Active Pharmaceutical Ingredients and Generic drug Product development
- CO3--- To learn Industrial Management and GMP Considerations.
- CO4--- To understand Optimization Techniques & Pilot Plant Scale Up Techniques
- CO5--- To Study Stability Testing, sterilization process & packaging of dosage forms.



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M.PHARM RS5 BRANCH: PHARMACEUTICS SEMESTER - I
SESSIONAL EXAM (Internal Assessment) - II
Date of Exam: 13/12/2018

SUBJECT CODE:	MPH102T	TOTAL MARKS	30
SUBJECT NAME:	MODERN PHARMACEUTICS	EXAM Hrs.	1 hr 10.00 to 11.00 AM

COURSE OBJECTIVE: The Objective of this course is to Educate students to have sound knowledge in Pharmaceutical formulation & development and to attain skills required in pharmacy profession. To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfil the requirements of Pharmaceutical Industries, Research and formulation development and also to pursue PhD. To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmaceutics, Cosmetics, Pharmaceutical Analysis, Drug regulatory affairs, drug design etc.

LONG ESSAYS (ANSWER ANY TWO) 2X10 = 20 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Define and explain compression and consolidation.	10	CO 1	L1
2. Explain the different dissolution parameters.	10	CO 1	L2
3. Define CGMP. Explain the fundamental principles of CGMP.	10	CO 3	L3
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
4. Explain Heckles plot and write its significance	5	CO4	L2
5. Enlist solubility enhancement techniques and explain.	5	CO 1	L1
6. Explain the concept of TQM	5	CO 3	L1

Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analysing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

- CO1--- To understand the elements of preformulation studies.
- CO2--- To understand the Active Pharmaceutical Ingredients and Generic drug Product development
- CO3--- To learn Industrial Management and GMP Considerations.
- CO4--- To understand Optimization Techniques & Pilot Plant Scale Up Techniques
- CO5--- To Study Stability Testing, sterilization process & packaging of dosage forms.



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Course: M Pharm I Semester
Student name:

Subject: MODERN PHARMACEUTICS (MPH102T)
Staff in charge:

S. No	Name of the Chapter	Class test Date/mark (10)	Assignment Date/mark (10)	Seminar Date / Mark (10)	Regular Practical Viva Date/mark (10)	Marks	Sign
I SESSIONAL							
1.	Preformation Concept						
2.	Optimization techniques in Pharmaceutical Formulation						
3.	Validation						
		Total Marks (Out of 30)	Average (Out of 2marks)	Attendance (8 marks)	Total (10 marks)		
Total Marks obtained in theory							
		Total Marks (Out of 30)	Average (Out of 10 marks)	Attendance (4 marks)	Total (14 marks)		
Total Marks obtained in Assignment							
		Total Marks (Out of 30)	Average (Out of 10 marks)	Attendance (4 marks)	Total (14 marks)		
Total Marks obtained in Seminar							
		Record (2.5 marks)	Regular viva (2.5 marks)	Attendance (10 marks)	Total (15 marks)		
Total Marks obtained in practical of Pharmacology -I							
II SESSIONAL							
4.	cGMP & Industrial Management						
5.	Compression and compaction						
6.	Study of consolidation parameters						
		Total Marks (Out of 30)	Average (Out of 2marks)	Attendance (8 marks)	Total (10 marks)		
Total Marks obtained in theory							
		Total Marks (Out of 30)	Average (Out of 10 marks)	Attendance (4 marks)	Total (14 marks)		
Total Marks obtained in Assignment							
		Total Marks (Out of 30)	Average (Out of 10 marks)	Attendance (4 marks)	Total (14 marks)		
Total Marks obtained in Seminar							
		Record (2.5 marks)	Regular viva (2.5 marks)	Attendance (10 marks)	Total (15 marks)		
Total Marks obtained in practical of Pharmacology -I							

Signature of Subject In-charge.

Signature of Mentor

Signature of H.O.D



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I-PHARM D

SESSIONAL EXAM (Internal Assessment)-I

Date of Exam: 12/10/2018

SUBJECT CODE:	PHAD2A03Th	TOTAL MARKS	30
SUBJECT NAME:	Medicinal Biochemistry	EXAM Hrs.	1.30 hour 10.00 to 11.30 AM

COURSE OBJECTIVE: The Objective of this course is to

- Educate students to have sound knowledge and to impart skills necessary for contribution to quality use of medicines, pathophysiology and therapeutics of various diseases. To enable the student to understand the pathophysiology of common diseases and their management in pharmaceutical sciences and to attain skills required in pharmacy profession.
- To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Community and Hospital Pharmacy, Pharmacovigilance, Clinical research and also to pursue higher studies.
- To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmacotherapeutics, Pathophysiology, Pharmaceutical formulations, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins

I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Describe the TCA Cycle.	10	CO 1	L1
2. Define Gluconeogenesis and explain the reactions involved in it with its significance.	10	CO 1	L1
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. Explain the hormonal regulation of blood glucose level in the body.	5	CO 2	L2
4. Outline the various biochemical reactions involved in HMP shunt pathway and write its significance.	5	CO 2	L1
5. Explain the B-oxidation of saturated fatty acids. Calculate the ATP generated on complete oxidation of palmitic acid.	5	CO 1	L1
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
6. What is Diabetes mellitus? Mention its types.	2	CO 1	L1
7. What is the use of malate-aspartate shuttle?	2	CO 1	L1
8. What is the amphibolic role of TCA cycle?	2	CO 2	L2
9. What are anaplerotic reactions?	2	CO 2	L1
10. Define Ketogenesis?	2	CO 1	L1

Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

- CO1 Understand the catalytic activity of enzymes and importance of isoenzymes in diagnosis of diseases;
 CO2 Know the metabolic process of biomolecules in health and illness (metabolic disorders);
 CO3 Understand the genetic organization of mammalian genome; protein synthesis; replication; mutation and repair mechanism;
 CO4 Know the biochemical principles of organ function tests of kidney, liver and endocrine gland; and
 CO5 Do the qualitative analysis and determination of biomolecules in the body fluids.



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I-PHARM D

SESSIONAL EXAM (Internal Assessment)-II

Date of Exam: 23/01/2019

SUBJECT CODE:	PHAD2A03Th	TOTAL MARKS	30
SUBJECT NAME:	Medicinal Biochemistry	EXAM Hrs.	1.30 hour 10.00 to 11.30 AM

COURSE OBJECTIVE: The Objective of this course is to

- Educate students to have sound knowledge and to impart skills necessary for contribution to quality use of medicines, pathophysiology and therapeutics of various diseases. To enable the student to understand the pathophysiology of common diseases and their management in pharmaceutical sciences and to attain skills required in pharmacy profession.
- To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Community and Hospital Pharmacy, Pharmacovigilance, Clinical research and also to pursue higher studies.
- To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmacotherapeutics, Pathophysiology, Pharmaceutical formulations, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins

I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Describe the biosynthesis of cholesterol. Add a note on the role of cholesterol in the body.	10	CO 1	L1
2. Explain in detail about biosynthesis of proteins.	10	CO 1	L1
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. Describe the reactions of urea cycle.	5	CO 2	L2
4. What is jaundice and explain the different types of jaundice.	5	CO 2	L1
5. Describe the different DNA repair mechanism.	5	CO 1	L1
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
6. What are transaminases? Write the diagnostic importance of two transaminases.	2	CO 1	L1
7. What is the normal blood urea level? Name two conditions in which blood urea level is elevated.	2	CO 1	L1
8. Name four metabolic disorders of urea cycle with enzyme defect.	2	CO 2	L2
9. What is Gout?	2	CO 2	L1
What are leading and lagging strands?	2	CO 1	L1

Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analysing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

- CO1 Understand the catalytic activity of enzymes and importance of isoenzymes in diagnosis of diseases;
 CO2 Know the metabolic process of biomolecules in health and illness (metabolic disorders);
 CO3 Understand the genetic organization of mammalian genome; protein synthesis; replication; mutation and repair mechanism;
 CO4 Know the biochemical principles of organ function tests of kidney, liver and endocrine gland; and
 CO5 Do the qualitative analysis and determination of biomolecules in the body fluids.



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Course: I Pharm D

Subject: Medicinal Biochemistry

Student Name:

Staff In-charge:

S.No	Name of the Chapter	Class test Date/ mark (10)	Home Assig. Date/ mark (10)	Viva Date/ mark (10)	Marks	Sign
I SESSIONAL						
1.	Introduction to biochemistry					
2.	Enzyme					
3.	Carbohydrate metabolism					
Total Marks (out of 80)						
Average (out of 4 marks)						
II SESSIONAL						
4.	Immunochemical techniques, The kidney function test, Lipid profile test, Electrolytes					
5.	Biological oxidation					
6.	Protein and amino acid metabolism					
Total Marks (out of 80)						
Average (out of 4)						
III SESSIONAL						
7.	Lipid metabolism					
8.	Liver function tests					
9.	Nucleic acid metabolism					
10	Introduction to clinical chemistry					
Total Marks (out of 80)						
Average (out of 4)						
Average (for 3 sessional)						

*Score will be included in practical Sessional Marks

Signature of subject In-charge

Signature of Mentor

Signature of H.O.D



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B. PHARM RS5 SEMESTER - I			
SESSIONAL EXAM (Internal Assessment) - I			
Date of Exam: 05/10/2018			
SUBJECT CODE:	BP104T	TOTAL MARKS	30
SUBJECT NAME:	Pharmaceutical Inorganic Chemistry	EXAM HRS.	1 hour 2:00AM to 3:00 PM
COURSE OBJECTIVE: The Objective of this course is to			
<ul style="list-style-type: none"> Educate students to have sound knowledge in pharmaceutical sciences and to attain skills required in pharmacy profession. To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Community and Hospital Pharmacy and to pursue higher studies. To provide up to date knowledge in theory and practical and relevant training to students about the subjects of pharmaceutical formulation & development, pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins. 			
I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS		Marks	CO
1. Describe the principle, reactions, and apparatus of arsenic limit test		10	CO (1)
2. Define acidic and base buffer. Derive Henderson-Hasselbach equation		10	CO (1)
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. What are antacids? Classify them with examples and add a note on combination therapy		5	CO (2)
OR			
4. Write the principle, reactions and procedure involved in the limit test for iron			
5. Discuss the role of fluoride treatment in dental caries		5	CO (2)
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
6. Write the composition of ORS powder		2	CO (1)
7. Define osmotic pressure and isotonic solutions		2	CO (1)
8. Define systemic acidifier with examples		2	CO (2)
9. Write a role of lead acetate cotton wool in arsenic limit test		2	CO (1)
10. Explain the role of alcohol and barium chloride in sulphate limit test		2	CO (1)
Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating			
COURSE OUTCOMES			
CO1	To know the sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals.		
CO2	Understand the medicinal and pharmaceutical importance of inorganic compounds		



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B. PHARM RS5 SEMESTER - I
SESSIONAL EXAM (Internal Assessment) - II
 Date of Exam: 13/12/2018

SUBJECT CODE:	BP104T	TOTAL MARKS	30
SUBJECT NAME:	Pharmaceutical Inorganic Chemistry	EXAM HRS.	1 hour 2:00AM to 3:00 PM

COURSE OBJECTIVE: The Objective of this course is to

- Educate students to have sound knowledge in pharmaceutical sciences and to attain skills required in pharmacy profession.
- To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Community and Hospital Pharmacy and also to pursue higher studies.
- To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmaceutical formulation & development, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins.

I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO	Bloom's Taxonomy Level *
1. Define and classify antacids and give the method of preparation and assay of sodium bicarbonate.	10	CO (2)	L1
2. What are saline cathartics? Write its mechanism of action. Give the preparation of any one compound.	10	CO (2)	L2
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. Write a note on iodine and its preparation OR Write a note on measurement of radioactivity	5	CO (2) CO (1)	L1 L1
4. Define astringent. Write the preparation of zinc sulphate	5	CO (2)	L1
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
5. Define emetics with example	2	CO (2)	L1
6. Chemical name, formula, use and storage condition of green vitriol	2	CO (2)	L1
7. Enumerate the equation for preparation of boric acid	2	CO (2)	L1
8. Define radioactivity	2	CO (1)	L1
9. What do you mean by decay constant?	2	CO (1)	L1

{e.g. CO (1), PO (1-3,8,11), PSO (1,2)} * (e.g.L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

CO1	To know the sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals.
CO2	Understand the medicinal and pharmaceutical importance of inorganic compounds



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Course: B Pharm I Semester

Student Name:

Subject: Pharmaceutical Inorganic Chemistry

Reg: No:

Staff In-charge:

S.No	TOPIC	Class Test [10]	Home Assign. [10]	Viva [10]	Signature
I SESSIONAL					
1	Impurities in Pharmaceutical substances				
2	Acid, base, buffers				
3	Major extra and intracellular electrolytes, dental products				
	Total				
	Average (allotted for Theory)	Class test [3]	Home assign [3]	Attendance [4]	Total [10]
	Average (obtained for Theory)				
	Average (allotted for Practical)	Viva [1.5]	Record [1.5]	Attendance [2]	Total [5]
	Average (obtained for Practical)				
Remarks of HOD:					
II SESSIONAL					
4	Gastrointestinal agents and Cathartics				
5	Expectorants and Haematinics				
6	Radiopharmaceuticals				
	Total				
	Average (allotted for Theory)	Class test [3]	Home assign [3]	Attendance [4]	Total [10]
	Average (obtained for Theory)				
	Average (allotted for Practical)	Viva [1.5]	Record [1.5]	Attendance [2]	Total [5]
	Average (obtained for Practical)				
Remarks of HOD:					

Sign. of Subject In-charge:

Sign. of Mentor:

Sign. of H.O.D