

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Supplementary Summer Examination – 2024

Course: B. Pharmacy

Subject Name: Medicinal Chemistry II

Max Marks: 75

Date: 13-06-2024

Semester: V

Subject Code: BP501T

Duration: 3 Hr.

Instructions to the Students:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

Q.1.	Objective Type Questions (Answer All the Questions)	(10X2) =20
i)	Write mechanism of action and medicinal applications of Ranitidine.	
ii)	Write synthesis of Warfarin.	
iii)	Explain gastric proton pump inhibitors.	
iv)	What is arrhythmia? Classify anti-arrhythmic agents.	
v)	Give synthetic scheme of Benzocaine.	
vi)	What are oral contraceptives?	
vii)	Explain thiazolidinediones as hypoglycemic agents.	
viii)	Explain stereochemistry of steroids.	
ix)	Discuss about drugs used for erectile dysfunction.	
x)	Write a note on corticosteroids.	
Q.2.	Long Answers (Answer 2 out of 3)	(10X2) =20
i)	Define Diuretics. Classify diuretics with examples and write mechanism of action and medicinal applications of drugs belonging to class thiazides.	
ii)	Classify oral hypoglycemic agents with suitable examples. Comment in detail on sulphonyl ureas. Draw synthetic route for tolbutamide.	
iii)	Classify antihistaminic agents with examples and explain in detail H1-antihistaminics and outline the synthesis of Diphenhydramine hydrochloride.	
Q.3.	Short Answers (Answer 7 out of 9)	(5 X 7) = 35
i)	Discuss in detail antihyperlipidemic agents.	
ii)	Write about coagulant agents.	
iii)	Discuss about thyroid and anti-thyroid drugs.	
iv)	What are sex hormones? Classify estrogens with suitable examples.	
v)	Write a note on cardiac glycosides used in the treatment of CHF.	
vi)	Classify antianginal agents with suitable examples.	
vii)	Give classification of anticancer agents with suitable examples and explain alkylating agents.	
viii)	Classify local anaesthetics with suitable examples and explain SAR of local anaesthetics.	

ix)	Classify antihypertensive drugs and give synthesis of methyldopate hydrochloride.
*** END OF THE PAPER ***	

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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**Supplementary Summer Examination – 2024****Course: B. Pharmacy****Subject Name: Industrial Pharmacy I****Max Marks: 75****Date: 15-06-2024****Semester: V****Subject Code: BP502T****Duration: 3 Hr.****Instructions to the Students:**

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

Q.1.	Objective Type Questions (Answer All the Questions)	(10 X 2) = 20
i)	Mention the composition of the glass-I container.	
ii)	Write the advantages of pellets over other dosage forms.	
iii)	Define Elixers with Examples.	
iv)	List out the manufacturing defects of tablets	
v)	Give the identification tests of Emulsions.	
vi)	Define bloom strength.	
vii)	What is BCS System?	
viii)	Differentiate between Hard gelatin Capsules and Soft gelatin capsules.	
ix)	Enlist Evaluation Test for Aerosols.	
x)	What are hydrates and solvates?	
Q.2.	Long Answers (Answer 2 out of 3)	(10 X 2) = 20
i)	Classify granulation techniques. Discuss the wet granulation method along with the equipment used in the each step	
ii)	Write in details Quality control tests of Parentrals.	
iii)	Explain about the Formulation of hard gelatin capsule	
Q.3.	Short Answers (Answer 7 out of 9)	(5 X 7) = 35
i)	Discuss the steps involved in sugar coating with ingredients used in each step.	
ii)	Explain the steps involved in manufacturing of hard gelatin capsules shells.	
iii)	What are excipients used in liquid formulation	
iv)	Write a note on Formulation of lyophilized sterile products.	
v)	How lipsticks are evaluated.	
vi)	Write a note on Hot Melt Extrusion	
vii)	Explain in short about Pressure filling and cold filling of Aerosoles.	
viii)	Write a note on Ophthalmic Preparations.	
ix)	Elaborate the parenteral additives with their examples.	
*** END OF THE PAPER ***		

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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
Supplementary Summer Examination – 2024

Course: B. Pharmacy

Subject Name: Pharmacology II

Max. Marks: 75

Date: 19-06-2024

Semester: V

Subject Code: BP503T

Duration: 03:00 Hrs.

Instructions to the Students:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

Q.1. Objective Type Questions (Answer All the Questions) (10 X 2) = 20

- i) Describe the MOA of Cardiac glycosides used in CHF.
- ii) Write in short drugs for shock therapy.
- iii) Explain role of Dextran.
- iv) Write the applications of Anabolic steroids.
- v) Explain the biosynthesis and role of ACTH.
- vi) Write about Uterine stimulants and relaxants.
- vii) What are physiological roles of Growth Hormone?
- viii) Write the biosynthesis of Bradykinin and Kallidin.
- ix) Explain pharmacology of Vasopressin as Anti-diuretic agent.
- x) Write MOA of Vitamin K precursor drugs as coagulant.

Q.2. Long Answers (Answer 2 out of 3) (10 X 2) = 20

- i) Classify Diuretics. Explain in detail the pharmacology of "Potassium Sparing Diuretics" class drugs.
- ii) Classify NSAID's. Explain the pharmacology of "Selective COX-2 Inhibitors" class drugs.
- iii) Classify Anti-anginal drugs. Write the pharmacology of "Nitrates" class drugs.

Q.3. Short Answers (Answer 7 out of 9) (5 X 7) = 35

- i) Classify Anti-arrhythmic drugs. Write pharmacology of Calcium Channel Blockers.
- ii) Write the pharmacology of "Oral Anticoagulant Drugs".
- iii) Enlist Anti-Platelet drugs. Explain pharmacology of any two drugs.
- iv) Write the biosynthesis, release and physiological role of Serotonin.
- v) Write the role of Angiotensin in RAS system. Describe its physiological role and actions.
- vi) Write the biosynthesis, release and physiological role of Insulin.
- vii) What are Gonads? Explain physiological role of Progesterone and Estrogens.
- viii) Write note on Oral contraceptives.
- ix) Write the principles and applications of bioassay.

***** END OF THE PAPER *****

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**Supplementary Summer Examination – 2024****Course: B. Pharmacy****Subject Name: Pharmacognosy & Phytochemistry-II****Max Marks: 75****Date: 21-06-2024****Semester: V****Subject Code: BP504T****Duration: 3 Hr.****Instructions to the Students:**

1. All questions are compulsory
2. Draw diagrams/ figures wherever necessary
3. Figures to right indicate full marks

Q.1. Objective Type Questions (Answer All the Questions) (10X2) =20

- i) Define phytochemistry.
- ii) Define Balsams with examples.
- iii) Give identification tests for Saponin glycosides.
- iv) Explain the isolation method of Menthol.
- v) Write the medicinal uses of Vincristine and Vinblastine.
- vi) Write source, chemical constituents and uses of Fennel fruit.
- vii) Enlist methods of extraction.
- viii) Give source and chemical constituents of Licorice root.
- ix) Define primary and secondary metabolites.
- x) Write the uses of Diosgenin.

Q.2. Long Answers (Answer 2 out of 3) (10X2) =20

- i) Discuss the Industrial production, estimation and utilization of Caffeine and Artemisinin.
- ii) Define Alkaloids, explain its types and write the pharmacognostic account on Opium.
- iii) Elaborate and draw the Shikmic acid pathway.

Q.3. Short Answers (Answer 7 out of 9) (5 X 7) = 35

- i) Discuss the Isolation, Identification and Analysis of Atropine.
- ii) Explain the drug Senna.
- iii) Define volatile oils and discuss the drug Cinnamon bark.
- iv) Elaborate the applications of Chromatography in phytochemistry.
- v) Write a note on Modern methods of extraction.
- vi) Explain the identification tests for Asafoetida and Myrrh.
- vii) Discuss the Industrial production and utilization of Digoxin.
- viii) Write source, chemistry and uses of Belladonna and Aloe.
- ix) Discuss the Isolation, Identification and Analysis of Curcumin.

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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE.
Supplementary Summer Examination – 2024

Course: B. Pharmacy

Subject Name: Pharmaceutical Jurisprudence

Max Marks: 75

Semester: V

Subject Code: BP505T

Duration: 3 Hr.

Date: 25-06-2024

Instructions to the Students:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

Q.1.	Objective Type Questions (Answer All the Questions)	(10X2) =20
i)	What are Magic Remedies?	
ii)	What is Trade Mark?	
iii)	Match the following 1. Development of Drug Industry in India 2. Health Survey and Planning Committee 3. Health Survey Development Committee 4. Drug Enquiry Committee	a. Col. R. N. Chopra b. Dr. A. L. Mudaliar c. Sir Josef Bhore d. Mr. Jaishukhla Hathi
iv)	What is Misbranded Drug?	
v)	What is National List of Essential Medicines	
vi)	Define Medical Practitioners as per Pharmacy Act 1948	
vii)	Define Toilet Preparation and Alcohol	
viii)	What is Restricted licence as per D&C Act?	
ix)	Define Coca derivatives as per NDPS Act?	
x)	What is schedule X and Schedule N	
Q.2.	Long Answers (Answer 2 out of 3)	(10X2) =20
i)	Write a note on Central Drug Laboratory and their functions	
ii)	Explain in detail about Bonded and Non-Bonded Manufacturing of Medicinal and Toilet Preparations	
iii)	What are the Offence and Penalties as per NDPS Act?	
Q.3.	Short Answers (Answer 7 out of 9)	(5 X 7) = 35
i)	Write a short note on Drug Technical Advisory Board	
ii)	What is IPR? Explain the process of application and grant of Patent in India?	
iii)	Write the Education qualification and write the functions of DI	
iv)	Write the Objectives, constitutions and functions of PCI	
v)	What is National Pharmaceutical Pricing Authority and write the features of DPCO 2013	
vi)	Write the objectives of Medicinal Termination of Pregnancy Act and Explain in detail legal framework for the Medicinal Termination of Pregnancy under the Act	
vii)	Differentiate between State Pharmacy Council and Central Pharmacy Council	

viii)	Give the code of Ethics for Pharmacist in relation to his job and trade
ix)	Write about prohibited and exempted advertisements under Drug and Magic Remedies Act and Rules
*** END OF THE PAPER ***	

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