

QP Code: 521006

Reg. No.....

**Fifth Semester B. Pharm Degree Supplementary Examinations
November 2024
Medicinal Chemistry II
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Essays

(2x10=20)

1. Define and classify anti-histaminic agents with examples. Write the synthesis and mechanism of action of any one H1 antagonist.
2. Define and classify anti-coagulants with examples. Write the synthesis and mechanism of action of any one anti-coagulant.

Short Notes

(7x5=35)

3. Describe about histamine receptors and their distribution in human body.
4. Write the chemistry and synthesis of meclorethamine.
5. Write briefly on plant products used as anti-neoplastic agents.
6. Classify calcium channel blockers. Write the structure and uses of verapamil.
7. Write briefly on osmotic diuretics.
8. Outline the metabolism of steroids.
9. Mechanism of action and uses of sildenafil and cortisone

Answer Briefly

(10x2=20)

10. Structure and uses of promethazine hydrochloride.
11. Outline the synthesis of mercaptopurine.
12. Mechanism of action of amyl nitrite and amlodipine
13. Write the structure of methazolamide and hydrochlorthiazide
14. Mechanism of action and uses of spironolactone
15. Write the structure and uses of lidocaine and menadione.
16. Outline the synthesis of disopyramide phosphate.
17. Mechanism of action and uses of repaglinide.
18. Therapeutic uses of glipizide and dibucaine.
19. Structure and uses of Nandrolone.

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Fifth Semester B. Pharm Degree Supplementary Examinations

November 2024

Formulative Pharmacy

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers*
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- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Essays

(2x10=20)

1. Explain different excipients and their functions used in the tablet manufacturing
2. Discuss formulation aspects of hard gelatin and soft gelatin capsules

Short Notes

(7x5=35)

3. Discuss any two quality control tests for capsules
4. Appraise glass as a material of pharmaceutical packaging
5. Discuss types of propellants used in the manufacture of aerosols
6. Illustrate the significance of drug–excipient compatibility studies in preformulation
7. Explain the disintegration test apparatus used for carrying out quality control test for tablets
8. Discuss types of modern hair colorants
9. Outline precautions to be taken during the manufacturing of parenteral products

Answer Briefly

(10x2=20)

10. Outline the significance of Carr's Index
11. The advantages of metered-dose inhaler
12. List four manufacturing defects of tablets
13. Name any two hardness testers used for measuring tablet hardness
14. Classify cosmetics according to their physical nature with two examples for each
15. Outline the significance of solubility studies
16. Justify the importance of particle size in preformulation
17. List QC tests for parenteral products
18. Define "Bloom strength"
19. Enlist the steps involved in sugar-coating of tablets

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**Fifth Semester B. Pharm Degree Supplementary Examinations
November 2024
Pharmacology II
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Essays

(2x10=20)

1. Classify anti-anginal drugs with suitable examples. Explain the mechanism of action of glyceryl trinitrate.
2. Explain the anticoagulant mechanism of heparin and warfarin. What are the adverse effects of these drugs. (4+4+2)

Short Notes

(7x5=35)

3. Explain the principles of bioassay.
4. Classify oral hypoglycemic agents and write the pharmacological actions of biguanide.
5. What is goiter. Classify anti-thyroid drugs with examples
6. Explain the actions of colchicine that makes it useful in the management of gout.
7. What is the antidote for paracetamol toxicity. Explain the mechanism by which aspirin causes gastric ulcers. (1+4)
8. With the help of a diagram, explain the mechanism of action of loop diuretics.
9. Explain the mechanism of any one class of anti-hyperlipidemic drugs.

Answer Briefly

(10x2=20)

10. What are the adverse effects of digoxin.
11. What is an anti-diuretic. Give one example.
12. What are the uses of anti-histaminic drugs.
13. Write briefly on actions and uses of drugs affecting substance-P signaling.
14. List examples and uses of angiotensin converting enzyme inhibitors.
15. Actions of gonadotropins secreted by anterior pituitary.
16. Write briefly on the hormones maintaining calcium balance in the body.
17. What are selective estrogen receptor modulators.
18. Uses of uterine stimulants.
19. How is the bioassay of d-tubocurarine performed.

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**Fifth Semester B. Pharm Degree Supplementary Examinations
November 2024**

Pharmacognosy and Phytochemistry II

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(2x10=20)

1. Explain Acetate mevalonate pathway
2. Explain the Soxhlet extraction with a neat labelled diagram

Short Notes

(7x5=35)

3. Discuss the various methods of tracer technique
4. Write a note on Cinnamon bark
5. Principle of UV- VIS spectroscopy
6. Write a note on cardiac glycosides
7. Explain the various development techniques in paper chromatography
8. Discuss the industrial production of Digoxin
9. Pharmacognosy of Cinchona

Answer Briefly

(10x2=20)

10. Principles of chromatography
11. Combined Umbelliferone test
12. Taxus
13. Chemical constituents and uses of Vinca
14. Autoradiography
15. Carotenoids
16. Microwave assisted extraction
17. Biological source and uses of Aloes
18. Distinguish Pale catechu and black catechu
19. Give the biological source and uses of Myrrh

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**Fifth Semester B. Pharm Degree Supplementary Examinations
November 2024**

Pharmaceutical Jurisprudence

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(2x10=20)

1. Explain offences and penalties under NDPS Act 1985
2. Write a note on loan license and repacking license

Short Notes

(7x5=35)

3. Explain the features of Schedule N
4. Explain the first register of pharmacist
5. Write short notes on patents
6. Describe the functions of state pharmacy council
7. Draw a neat label of Schedule X drug
8. Drugs enquiry committee
9. Explain approved place under Medical Termination of Pregnancy Act

Answer Briefly

(10x2=20)

10. Define cosmetics
11. Mention functions of Institutional Animal Ethics Committee
12. What are cocoa derivatives
13. Define Schedule M and P
14. Spurious cosmetics
15. Approved colours to be used in pharmaceuticals
16. Non-bonded laboratory
17. Define psychotropic substances
18. What is restricted license
19. What is talisman
