

QP Code: 521006

Reg. No.....

**Fifth Semester B. Pharm Degree Supplementary Examinations
July 2022
Medicinal Chemistry
(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 antihistaminics with examples. Discuss the chemistry, synthesis and uses of Diphenhydramine.
2. Classify anti-hyperlipidemic agents. Explain the mechanism of action of lovastatin. Explain the chemistry and uses of quinidine sulphate.

Short Notes

(7x5=35)

3. Define diuretics. Explain the chemistry and mechanism of action of potassium sparing diuretics with suitable examples.
4. Explain the stereochemistry of steroids.
5. Insulin and its preparation.
6. Explain the SAR of alkylating agents.
7. Anti-thyroid drugs.
8. What are local anaesthetics. Outline the synthesis of benzocaine.
9. Chemistry, mechanism of action and uses of mercaptopurine

Answer Briefly

(10x2=20)

10. Write the synthesis and uses of warfarin.
11. Define coagulants with examples.
12. Outline the synthesis of nitroglycerine.
13. Draw the structure of any two corticosteroids
14. Chemistry of male sex hormones.
15. Write the mechanism of action and structure of any one calcium channel blocker.
16. Give the structure and uses of ethacrynic acid and triamterene.
17. Cardio-tonics.
18. What are H₂ antagonists. Give examples.
19. Structure, mechanism of action and uses of minoxidil.

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**Fifth Semester B. Pharm Degree Supplementary Examinations
July 2022
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*
- *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 parenteral products. Add a note on different ingredients used in parenteral products.
2. Explain different quality control tests for tablets

Short Notes

(7x5=35)

3. Explain extraction of gelatin along with a flow sheet.
4. Describe Rotary Die process for the production of soft gelatin capsules.
5. Explain general composition of tooth pastes.
6. Explain the container system for aerosols.
7. Discuss the factors influencing the selection of containers.
8. Explain the formulation of eye drops.
9. Describe any one pelletization process in detail.

Answer Briefly

(10x2=20)

10. Explain enteric coating polymers. Give two examples.
11. Explain BCS classification of drugs.
12. Explain different tableting problems.
13. Define base adsorption value and write its significance.
14. Parenteral products should be isotonic. Why.
15. Explain Polymorphism with suitable examples.
16. Explain the finishing techniques used the production of hard gelatin capsules.
17. Mention different quality control tests for glass containers.
18. Enlist different sterilization methods
19. Explain lyophilization. Write its applications.

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**Fifth Semester B. Pharm Degree Supplementary Examinations
July 2022**

Pharmacology II

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

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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. Define angina pectoris and classify the anti-anginal drugs. Write the mechanism of action, adverse effects and uses of nitrates.
2. What are the pharmacological actions of insulin. What are the various insulin preparations available

Short Notes

(7x5=35)

3. Explain the mechanism of action and therapeutic uses of loop diuretics.
4. Explain the mechanism of action and adverse effects of digoxin.
5. Bioassay of histamine.
6. What are fibrinolytics. Classify them and give their therapeutic applications.
7. Oxytocic drugs.
8. Write the pharmacological actions and uses of oestrogen.
9. Calcium channel blockers.

Answer Briefly

(10x2=20)

10. Name two potassium sparing diuretics.
11. Give four examples of anti hyperlipidemic drugs.
12. Name two antirheumatic drugs.
13. Define bioassay.
14. Uses of aspirin.
15. Enumerate pituitary hormones.
16. Name two in vitro anticoagulants.
17. Name two 5-HT antagonists
18. Examples for anti-thyroid drugs.
19. Erythropoietin.

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**Fifth Semester B. Pharm Degree Supplementary Examinations
July 2022**

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 the various tracer techniques in the investigation of biogenetic studies
2. Describe the collection, constituents with uses and chemical test of digitalis leaf.

Short Notes

(7x5=35)

3. Discuss the industrial production and utilization of Vinca alkaloids
4. Benzoin
5. Explain the term Tannin and compare pale and Black catechu
6. Explain the Mevalonic acid pathway in the biosynthesis of terpenes.
7. Differentiate between Aloes and senna.
8. Outline the role of infra-red spectroscopy in evaluation of plant constituents
9. Discuss the pharmacognosy of Belladonna

Answer Briefly

(10x2=20)

10. Explain Autoradiography
11. Recall the uses of Ephedra and Ruta
12. Enumerate the uses of clove.
13. Mention the constituents of tea leaf
14. Explain Artemisinin
15. What are flavonoids. Give examples.
16. Explain the therapeutic uses of Myrrh
17. Explain the term glycosides with examples.
18. Mention the crude drug used for bronchodilator activity and its source.
19. Mention the phytoconstituent responsible for synthesis of steroids.

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**Fifth Semester B. Pharm Degree Supplementary Examinations
July 2022**

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. Give the conditions required for grant of licence for the manufacture of drugs specified in schedule C, C1 and X
2. What are the objectives of Pharmacy Act. Explain the constitution and functions of Pharmacy Council of India (PCI) and the procedure for registration of pharmacist.

Short Notes

(7x5=35)

3. Describe the drug price control order.
4. Intellectual property right.
5. Drug Enquiry Committee.
6. Explain the control and regulation regarding the cultivation of opium.
7. Explain the duties of drug inspectors.
8. Repacking licence.
9. Explain the condition required for the manufacture of new drugs.

Answer Briefly

(10x2=20)

10. Define misbranded drug.
11. Explain Schedule M.
12. What are the records required to be maintained under Prevention of Cruelty to Animal Act.
13. Explain Schedule H.
14. Give the condition required for the whole sale of Schedule X drug.
15. Constitution and function of drug consultative committee.
16. Name the exempted advertisements.
17. Explain schedule T.
18. Name the licensing authorities as per the Drug and Cosmetics Act 1945.
19. Define pharmaceutical code of ethics.
