

Fifth Semester B. Pharm Degree Regular/Supplementary Examinations January 2023 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)

- Explain briefly on the nomenclature, stereochemistry and metabolism of steroidal hormones.
- 2. What are local anesthetic agents. Classify them with structures of any two from each class. Explain the structure activity relationship and mechanism of action of local anesthetics.

Short Notes (7x5=35)

- 3. The drugs used for erectile dysfunction.
- 4. Mechanism of action and synthesis of furosemide.
- 5. Classify antimetabolites used as antineoplastic agents with one structure from each class. Write the synthesis of mercaptopurine.
- 6. Centrally acting antihypertensive agents.
- 7. Enumerate the structure, mechanism of action and use of cetrizine.
- 8. Explain the synthesis of diphenhydramine and promethazine.
- 9. Explain the chemistry and pharmacological uses of cardiac glycosides.

Answer Briefly (10x2=20)

- 10. Classify calcium channel blockers with one structure from each class.
- 11. Structure and use of omeprazole.
- 12. Classify antihyperlipidemic agents with examples.
- 13. Explain antineoplastic antibiotics.
- 14. Outline the functions of mineralocorticoids.
- 15. Classify diuretics with examples.
- 16. Outline the synthesis of chlorthiazide.
- 17. Explain the synthesis of isosorbide dinitrite and nitroglycerine.
- 18. Classify antiarrhythmic agents with examples.
- 19. Outline the structure and use of ethacrynic acid.





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QP Code: 522006

Fifth Semester B. Pharm Degree Regular/Supplementary Examinations January 2023 Formulative Pharmacy

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

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- Draw diagrams wherever necessary

Essays

(2x10=20)

- 1. Discuss the various physico-chemical properties of drug substances in preformulation study.
- 2. Explain the manufacturing of hard gelatin capsule, and discuss the quality control test for finished capsules.

Short Notes

(7x5=35)

- 3. Describe the excipients used for tablet preparation.
- 4. Advantages of aerosols.
- 5. Explain the methods of sterilization of parenteral preparation.
- 6. Discuss various methods used for filling of aerosols.
- 7. Explain pyrogen and write the testing of pyrogen.
- 8. Explain the formulation and manufacturing of sunscreen lotions.
- 9. Explain legal and official requirements for containers.

Answer Briefly

(10x2=20)

- 10. Explain polymerization and its application.
- 11. Explain the factors affecting flow property.
- 12. Characterization of lyophilized product.
- 13. List out advantages of pelletization technique.
- 14. List out various parts used for aerosol valve assembly.
- 15. BCS classification of drugs.
- 16. Classify different types and its properties of hair dyes.
- 17. Explain the methods of polishing of capsules.
- 18. Explain the vehicles used for parenteral preparation.
- 19. Explain the ideal characters of shampoos.





Fifth Semester B. Pharm Degree Regular/Supplementary
Examinations January 2023
Pharmacology II

Reg. No..

(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. Explain antiplatelet drugs. Describe the pharmacology of any one antiplatelet agent.
- 2. Classify antihypertensives. Explain the pharmacology of any one class of antihypertensive drugs with emphasis on therapeutic uses and adverse effects.

Short Notes (7x5=35)

- 3. Explain drug interactions and adverse effects of digoxin.
- 4. Describe the mechanism of action and adverse effects of warfarin.
- 5. Explain the biosynthesis and physiological roles of histamine.
- 6. Physiological role of calcitonin.
- 7. Explain the mechanism of action of paracetamol and list its adverse effects.
- 8. HMG-Co A Reductase inhibitors.
- 9. 5-HT antagonists.

Answer Briefly

(10x2=20)

- 10. Explain vasodilators.
- 11. Uses of fibrinolytic agents.
- 12. Explain plasma volume expanders.
- 13. Potassium sparing diuretics.
- 14. Mention about functions of leukotrienes.
- 15. TNF-Alpha inhibitors use in rheumatoid arthritis.
- 16. List out the hormones released by anterior pituitary gland.
- 17. Mechanism of action of colchicine.
- 18. Mention about the selective estrogen receptor modulators. Give examples.
- 19. Explain anabolic steroids.

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Reg. No.....



Fifth Semester B. Pharm Degree Regular/Supplementary Examinations January 2023 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 industrial production, estimation and utilization of digoxin.
- 2. Discuss in detail the collection, constituents with uses and chemical test of opium.

Short Notes (7x5=35)

- 3. Discuss the industrial production method and application of Senna glycosides
- 4. Dioscorea rhizome
- 5. Illustrate the pharmacognosy of Rauwolfia root.
- 6. Explain Taxus
- 7. Explain chromatographic techniques used in plant drug analysis.
- 8. Explain the term iridoids and discuss the pharmacognosy of Gentian
- 9. Explain the production and estimation of podophyllotoxin from its sources.

Answer Briefly (10x2=20)

- 10. Name any two basic metabolic pathways in the formation of plant secondary metabolites.
- 11. Give the structure of sennosides.
- 12. Mention the any two uses of bitter almond.
- 13. Recall the constituents of ginger and how will you mask the pungency of ginger.
- 14. Explain Lignans. Give examples.
- 15. Mention the spray reagents used to detect alkaloids.
- 16. Explain the confirmatory test for Asafoetida
- 17. Explain the therapeutic uses of cinnamon.
- 18. Name the different methods of feeding radio isotopes to plants in tracer technique.
- 19. Therapeutic use of colophony.



Reg. No......

Fifth Semester B. Pharm Degree Regular/Supplementary Examinations January 2023 Pharmaceutical Jurisprudence

(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 table/diagrams/flow charts wherever necessary

Essays

(2x10=20)

- 1. Explain the administrative bodies of Drugs and Cosmetics Act, 1940 and Rules 1945. Write a note on the qualification, powers and duties of drug inspectors.
- Describe the formation and circumstances which lead to the formation of Drug Enquiry Committee (Chopra Committee) and explain its objectives and final recommendations to the government.

Short Notes (7x5=35)

- 3. Describe the Drug Price Control Order, 2013.
- 4. What are the duties and procedures adopted by government analysts.
- 5. What are the provisions under Medical Termination of Pregnancy Act.
- 6. Give the class of drugs and cosmetics prohibited from import.
- 7. Explain the constitution and function of state pharmacy council.
- 8. Define patent and proprietary medicines. Explain the labelling and packaging requirements of these medicines for export.
- 9. Procedure for the maintenance, transfer, acquisition of animals for experiment under Prevention of Cruelty to Animal Act, 1960.

Answer Briefly (10x2=20)

- 10. Explain schedule X.
- 11. Name the controlling authorities under Drugs and Cosmetics Act, 1940.
- 12. Name the office for the control and regulation of opium cultivation.
- 13. Explain the power to suspend or revoke registration under Prevention of Cruelty to Animals Act, 1960.
- 14. Explain the conditions required for obtaining an import licence for drugs under Drugs and Cosmetics Act, 1940.
- 15. Differentiate between State and joint state pharmacy council.
- 16. Give few lines on prohibition of certain advertisements.
- 17. Define restricted licence.
- 18. Give the national list of essential medicines.
- 19. Draw the specimen label for schedule H drug

