QP Code: 521006 **Reg. No……**

Fifth Semester B. Pharm Degree Regular/Supplementary Examinations July 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. Classify anti-neoplastic agents with examples. Explain the chemistry, mechanism of action and synthesis of any one antimetabolite.
2. Classify diuretics with examples. Explain the chemistry, mechanism of action and synthesis of any one loop diuretics.

Short Notes **(7x5=35)**

3. Chemistry, synthesis and uses of cimetidine.
4. Structure, mechanism of action and uses of chlorpheniramine maleate and ranitidine.
5. Write briefly on drugs used in congestive heart failure.
6. Structure, mechanism of action and uses of procainamide and phenytoin.
7. Write briefly on sex hormones.
8. Structure, mechanism of action and uses of L-Thyroxine and Methimazole.
9. Explain the SAR of local anaesthetics.

Answer Briefly **(10x2=20)**

10. Outline the synthesis of triprolidine hydrochloride.
11. Structure of insulin.
12. Structure and uses of verapamil.
13. Outline the synthesis of nitroglycerin.
14. Structure and Mechanism of action of clofibrate.
15. Chemical structure and use of prednisolone.
16. Outline the synthesis of tolbutamide.
17. Therapeutic uses of metformin and piperocaine.
18. Mechanism of action and uses of procaine.
19. Structure of captopril and clonidine hydrochloride.

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QP Code: 522006 **Reg. No……**

Fifth Semester B. Pharm Degree Regular/Supplementary Examinations July 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 • 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. Discuss the process of capsule shell manufacturing
2. Define cosmetics. Explain the formulation of lipstick and shampoo with examples

Short Notes **(7x5=35)**

3. Discuss any two quality control tests for tablets
4. Explain types of propellant used for aerosol manufacturing
5. Discuss bridging and rat holing affecting the manufacture of solid dosage form
6. Discuss pyrogen test and sterility test of parenteral formulations
7. Explain dry granulation and list its advantages
8. Explain types of eye-ointment bases with examples
9. Explain different preformulation study parameters for solid dosage forms

Answer Briefly **(10x2=20)**

10. Recall the application of BCS classification of drugs
11. Relate the importance of pH in ophthalmic preparations
12. What are enteric coating polymers. Give one example
13. Compare disintegrants with super disintegrants
14. Recall indirect capsule filling methods
15. Recall any two applications of preformulation studies
16. Elaborate on leak test for parenterals
17. List out the formulation ingredients of toothpastes
18. Enlist the factors that influence the choice of containers in pharmaceutical packaging
19. Outline the evaluation parameters of ophthalmic preparations

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QP Code: 523006 **Reg. No……**

Fifth Semester B. Pharm Degree Regular/Supplementary Examinations July 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. Giving examples of drugs, explain the mechanism of action any two classes of lipid lowering agents. Also, list their adverse effects. (2+6+2)
2. Draw a flow chart to depict prostaglandin production. Classify NASIDS and list the adverse effects COX-I inhibitors. (4+4+2)

Short Notes **(7x5=35)**

3. Write the applications of bioassays.
4. Explain how Insulin helps in cellular uptake of glucose. Give example of two drug that increases insulin release from pancreas. (4+1)
5. Explain the actions of thyroid hormones on cardiovascular and nervous systems.
6. Describe the uricosuric mechanism of probenecid.
7. Describe how ticlopidine prevents platelet aggregation.
8. How does warfarin prevent blood coagulation. List two adverse effects of warfarin. (4+1)
9. Giving examples of drugs, explain the mechanism of action and list the adverse effects of Class-I antiarrhythmic drugs. (1+3+1)

Answer Briefly **(10x2=20)**

10. Explain how adrenergic alpha blockers are useful in the management of hypertension.
11. Define coagulants. Give two examples
12. How does streptokinase lyse fibrin clots.
13. Give an example of a diuretic drug acting on collecting duct. List its adverse effects. (1+1)
14. Write a note on anabolic steroids.
15. Write the effects of calcitonin on calcium metabolism.
16. Write the effects of glucocorticoid on immune system.
17. Describe a method to perform the bioassay of insulin.
18. Write a note on postcoital contraception.
19. List any two uses of anti-androgens.

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QP Code: 524006 **Reg. No……**

Fifth Semester B. Pharm Degree Regular/Supplementary Examinations July 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 the acetate pathway and briefly mention the different secondary metabolites formed through this pathway
2. Explain in detail about Digitalis

Short Notes **(7x5=35)**

3. Competitive feeding
4. Explain the industrial production and estimation of Podophyllotoxin
5. Adulteration of clove
6. Differentiate cardenolide and bufadienolide
7. Explain the Soxhlet extraction with a neat labelled diagram
8. Explain the microscopy of fennel
9. Classify resins

Answer Briefly **(10x2=20)**

10. Modified Born Trager's Test
11. Pseudotannins
12. What do you mean by edge effect in TLC
13. Chemical constituents and uses of Taxus
14. Define chromatography
15. Explain the biological source, chemical constituents and uses of Guggul
16. Principle of Electrophoresis
17. Maceration
18. Chemical constituents and uses of Pale catechu
19. Therapeutic uses of flavonoids

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QP Code: 525006 **Reg. No……**

Fifth Semester B. Pharm Degree Regular/Supplementary Examinations July 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. Discuss the qualifications and functions of a drugs inspector
2. Explain the salient features of Drugs and magic remedies Act

Short Notes **(7x5=35)**

3. What are the labeling requirements of cosmetics
4. Explain the functions of Drugs technical advisory board
5. Functions of joint state pharmacy council
6. Explain the principles of Code of ethics
7. Schedule M
8. What are non-patentable inventions
9. What is illicit traffic and mention the penalties for illicit traffic

Answer Briefly **(10x2=20)**

10. Loan license
11. Conditions for termination of pregnancy as per Medical Termination of Pregnancy Act
12. Scheduled formulations under drugs price control order
13. Define schedule C and C1
14. What is a new drug
15. How do you control drug abuse
16. What is intellectual property right
17. What is schedule J and X
18. What are toilet preparations
19. Define bulk drug and formulation

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