QP Code: 521006 **Reg. No…….**

Fifth Semester B. Pharm Degree Supplementary Examinations
May 2023
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 diuretics with examples. Write the synthesis and mechanism of action of any one thiazide diuretics.
2. Classify anti-anginal drugs with examples. Explain the chemistry, mechanism of action and synthesis of any one vasodilators.

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

3. Drugs used in congestive heart failure.
4. Describe about histamine receptors and their distribution.
5. Write briefly on anti-hyperlipidemic agents.
6. Classify antihypertensive agents. Write the structure and uses of benazepril HCl.
7. Structure, mechanism of action and uses of cisplatin and mitotane.
8. Write the chemistry and synthesis of any one antiarrhythmic agent.
9. Write the mechanism of action and uses of phenytoin.

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

10. Structure, mechanism of action and uses of furosemide.
11. Outline the synthesis of procaine.
12. Draw the structure of vinblastine sulphate and its uses.
13. Define anti-thyroid drugs with examples.
14. Write the structure of any two gastric proton pump inhibitors.
15. Structure and mechanism of action of cyclophosphamide.
16. Give the structure and uses of cimetidine and mercaptopurine.
17. Outline the synthesis of isosorbide dinitrite.
18. Write the mode of action of carbonic anhydrase inhibitors.
19. Draw the structure and uses of methotrexate.

****

QP Code: 522006 **Reg. No……**

Fifth Semester B. Pharm Degree Supplementary Examinations
May 2023
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. Explain official quality control tests for tablets.
2. Explain extraction of gelatin. Describe Rotary die process for the production of soft gelatin capsules.

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

3. Discuss different methods of sterilization.
4. Explain different methods for Pyrogen testing of parenteral products.
5. Discuss wet granulation method.
6. Briefly write about different chemical properties studied in preformulation.
7. Explain any one method used for the manufacture of pellets.
8. Formulation considerations for ophthalmic preparations.
9. Explain the formulation and method of preparation of cold cream.

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

10. Different quality control tests for aerosols.
11. BCS classification of drugs.
12. Mention different types of glass used in pharmaceutical packaging.
13. Explain base adsorption value. Write its importance.
14. Parenteral products should be sterile and pyrogen-free. Give reasons.
15. Different types of propellants. Give examples.
16. Define lyophilization. What are its applications.
17. Different types of plastics used for pharmaceutical packaging.
18. Different steps involved in sugar coating of tablets.
19. Enlist different ingredients used for manufacture of tooth paste.

****

QP Code: 523006 **Reg. No……**

Fifth Semester B. Pharm Degree Supplementary Examinations
May 2023
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. What are the types of insulin preparations available. Explain the structure, mechanism of action, pharmacology and adverse effects of insulin.
2. Classify antihyperlipidemics. Explain the pharmacology of any one class of anti-hyper lipidemic drugs with emphasis on therapeutic uses and adverse effects.

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

3. Mechanism of action and drug interactions of Class I antiarrythmics.
4. Mention the synthesis, release and role of bradykinin as an autacoid.
5. Explain the role of Vitamin K in coagulation. Add a note on its adverse effects.
6. Explain the physiological functions of Vitamin-D
7. Describe the mechanism of action of aspirin. Add a note on its adverse effects.
8. Explain briefly the pharmacology of beta-blockers.
9. Oral contraceptive pills.

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

10. What are angiotensin converting enzyme inhibitors.
11. Mention the adverse effects of alpha-blockers.
12. Explain erythropoietin.
13. Function of antidiuretic hormone.
14. Any two functions of prostaglandins.
15. Mechanism of action of colchicine.
16. Mention the effects of thyroid hormones.
17. Explain the functions of growth hormone.
18. Explain the adverse effects and therapeutic uses of 5-Alpha reductase inhibitors.
19. What are uterine stimulants. Give two examples.

****

QP Code: 524006 **Reg. No……**

Fifth Semester B. Pharm Degree Supplementary Examinations
May 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. Discuss briefly about the various tracer techniques used in investigation of biogenetic pathway studies.
2. Give a pharmacognostic account on Cinchona.

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

3. Differentiate Indian Senna and Alexandrian Senna.
4. Adulterants of clove.
5. Chemical tests for benzoin.
6. Explain the microscopical character of ginger with neat labelled diagram.
7. Explain the industrial production and utilization of Atropine.
8. Principle and applications of HPTLC.
9. Pharmacognosy of Guggul.

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

10. Explain the source, family and uses of Myrrh.
11. Modified Borntrager Test.
12. Principle and application of electrophoresis.
13. Explain the source, family and uses of Artemisia.
14. Explain the chemical structure and uses of Ephedra.
15. Therapeutic uses of Vincristine.
16. Chemical constituents and uses of tea.
17. Application of Mass spectroscopy.
18. Chemical constituents and uses of ginger.
19. Chemical constituents and uses of opium.

****

QP Code: 525006 **Reg. No……**

Fifth Semester B. Pharm Degree Supplementary Examinations
May 2023
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 the qualification, duties and responsibilities of drug inspector. Explain the procedure for taking of samples by drug inspector.
2. Describe the general procedure for obtaining a licence for the manufacture of drugs stating the conditions to be satisfied.

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

3. Restricted licence.
4. Give the constitution of drugs technical advisory board.
5. Explain the conditions for grant of manufacturing licence for Schedule C, C_1 and X drugs.
6. Explain the code of ethics of pharmacists in relation to his Trade.
7. What are the provisions under Medical termination of Pregnancy Act.
8. What are the requirements of a non-bonded laboratory.
9. Explain the recommendations of the Drug Enquiry Committee.

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

10. Drugs and Cosmetics Act, 1940.
11. Mention the conditions when names are removed from the first register.
12. Describe the qualification, powers and functions of Licensing Authorities under Drug and Cosmetics Act, 1940.
13. Define Schedule C and C_1 and Schedule X with an example.
14. Constitution of Pharmacy Council of India (PCI).
15. Information that may be refused under Right to Information Act.
16. Define schedule G, schedule H, schedule M and schedule N.
17. Institutional Animal Ethics committee.
18. Give the specimen label for ophthalmic preparation.
19. Define advertisement and magic remedies.

****