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Total Number of Pages : 02

Course B.Pharm
Sub_Code BP502

5th Semester Regular/Back Examination: 2022-23
SUBJECT Industrial Pharmacy I
BRANCH(S): B.Pharma

Time : 3 Hour

Max Marks : 75

Q.Code : L232

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1

Answer the following questions :

(2 x 10)

- Briefly enumerate the flame projection in aerosols.
- Define polymorphism with example.
- Write the significance of rubber closure.
- How can you distinguish between capping and lamination?
- Mention the importance of partition coefficient.
- What do you mean by 'Class 100 Clean room'?
- Name any four types of metals used as packaging material.
- Differentiate between syrup and elixir.
- Define disintegrating agents with example.
- Discuss HEPA filter in terms of its efficiency and capacity of removal of impurities.

Part-II

Q2

Focused-Short Answer Type Questions- (Answer Any Seven)

(5 x 7)

- Types of tablet coating
- Vanishing cream
- Hair dyes
- Manufacturing methods of hard gelatin capsule
- Evaluation of ophthalmic preparations
- BCS classification of drugs & its significant in preformulation.
- Formulation requirements of pellets.
- Shampoo
- Factors influencing choice of containers.



Part-III
Long Answer Type Questions (Answer Any Two)

- Q3 What do you mean by ophthalmic drug delivery system? Describe the various types of ophthalmic dosage form. Briefly describe the application method of eye drop. (10)
- Q4 Define preformulation; write its considerations in the development of solid dosage forms and its impact on stability of dosage forms. (10)
- Q5 Define parenteral formulation. Describe the various routes of administration of parenteral formulations. How they can be evaluated? (10)
- Q6 Describe briefly about the large scale manufacturing of Aerosol. Give detail idea about the various components of aerosol. (10)

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B. Pharm
BP501T

5th Semester Regular/Back Examination: 2022-23
Medicinal Chemistry- II

B.Pharma

Time : 3 Hour

Max Marks : 75

Q.Code : L170

Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1

Answer the following questions :

(2 x 10)

- Write the structure and chemical name of a local anesthetic that lacks a terminal diethyl amino group.
- Outline the synthesis of Warfarin.
- Give the generic name and structure of an antiulcer agent having imidazole ring.
- Name the enzyme on which Voglibose acts. Write the major use of Voglibose.
- Write the mechanism of action of Nesiritide.
- Name two plant products with their sources used in cancer treatment.
- Why is carbonic anhydrase inhibitor a diuretic?
- What are the therapeutic uses of L-Thyroxine?
- Write the name of four DNA alkylating agents used as antineoplastic agents.
- Write the drug class and major indication of Sildenafil.

Part-II

Q2

Focused-Short Answer Type Questions- (Answer Any Seven)

(5 x 7)

- What are calcium channel blockers? Explain the mechanism of action and uses of Nifedipine.
- Discuss briefly the SAR of H1 receptor blockers.
- What are bile acid sequestrants? Give the mechanism of action and uses of Cholesteramine.
- Write a brief note on gastric proton pump inhibitors.
- Write the synthesis, mechanism of action of any one loop diuretic.
- Write the synthesis of Nitroglycerin and Isosorbide dinitrate.
- Why steroids are called corticosteroids? Write the mode of action and uses of one synthetic glucocorticoid.
- Briefly describe the SAR of local anesthetics.
- Write a short note on ACE inhibitors used as antihypertensive agents.



Part-III

Long Answer Type Questions (Answer Any Two)

- Q3 Define and classify anti-arrhythmic agents with examples. Write the structure, mode of action, synthesis and uses of any one class I antiarrhythmic drug. (1)
- Q4 What are antineoplastic agents? Classify them with examples? Discuss the general mechanism of action of antimetabolites. Outline the synthesis and uses of Mercaptopurine. (1)
- Q5 Discuss the stereochemistry of steroids. What are androgens? Give the mechanism of action and uses of Diethyl stilbestrol. (1)
- Q6 Define and classify antidiabetic agents with examples. Write the structure, mechanism of action, synthesis and uses of one oral hypoglycemic agent. (1)

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B. Pharm
BP503T

5th Semester Regular/Back Examination: 2022-23

SUBJECT: PHARMACOLOGY II

BRANCH(S): B.Pharma

Time : 3 Hour

Max Marks : 75

Q.Code : L296

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

- Q1** **Part-I** **(2 x 10)**
Answer the following questions :
- Define haematinics with examples of oral iron therapy.
 - What is the response of histamine when injected intradermally.
 - Write the mechanism of action of carbimazoles.
 - Name any two hypolipidaemic drugs with their uses.
 - Which serotonin antagonists act as antiemetics.
 - Write the role of calcitonin in osteoporosis.
 - Name any two antirheumatic drugs with their uses.
 - Write about mechanism of spironolactone.
 - Name any two plasma volume expanders with their uses.
 - Name any two vasodilators with their uses.

- Q2** **Part-II** **(5 x 7)**
Focused-Short Answer Type Questions- (Answer Any Seven)
- Write a brief note on oral anticoagulants with examples.
 - Enumerate briefly about bradykinins.
 - Briefly explain about the antidiuretic properties of thiazides.
 - Write a note on calcium channel blockers.
 - Briefly describe about the pharmacological actions of glucocorticosteroids with examples.
 - Write about the different general methods of bioassay.
 - Briefly explain about the mechanism of action, adverse effects & uses quinidine.
 - Write a note on anabolic steroids with examples and uses.
 - Write a note on glyceryl trinitrate.



Part-III

Long Answer Type Questions (Answer Any Two)

- Q3 What are cardiac glycosides? Describe the M.O.A., adverse effects and uses of digoxin (10)
- Q4 Classify NSAIDS. Explain about the various pharmacological actions of Aspirin. (10)
- Q5 Classify Diuretics Write the mechanism of action, adverse effects and therapeutic uses of furosemide. (10)
- Q6 Classify oral hypoglycaemic agents. Write about the mechanism of action, adverse effects and drug interactions of sulfonyl ureas. (10)

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Course: B.Pharm
Sub Code: BP504T

5th Semester Regular/Back Examination: 2022-23
SUBJECT: Pharmacognosy and Phytochemistry-II
BRANCH(S): B.Pharma

Time : 3 Hours

Max Marks : 75

Q.Code : L355

Answer Question No.1 (Part-I) which is compulsory, any seven from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

(2 x 10)

Q1

Answer the following questions :

- Define secondary metabolites with examples.
- Write the biological source and uses of Asafoetida.
- Define alkaloids.
- Mention the biological source and chemical constituents of Rauwolfia.
- What are Flavonoids?
- Define electrophoresis and give its applications.
- Write the biological source and uses of Opium.
- What are resins?
- Difference between Cardenolides and Bufadienolides.
- Mention the biological source of Digitalis and Cinnamon.

Part-II

(5 x 7)

Q2

Focused-Short Answer Type Questions- (Answer Any Seven)

- Mention the biological source, chemical constituents and therapeutic uses of Mentha.
- Discuss the industrial production and utilization of Sennoside.
- Write the biological source and isolation of Curcumin.
- Explain the isolation and identification of Artemisin.
- Write down the isolation and analysis of Quinine.
- What are the applications of spectroscopy in the identification of phytoconstituents?
- Write the estimation and utilization of Podophyllotoxin.
- Mention the biological source, chemical constituents and therapeutic uses of Aloe.
- Write down the isolation and analysis of Caffeine.



Part-III

Long Answer Type Questions (Answer Any Two)

- Q3 Explain Shikimic acid pathway and its significance. (10)
- Q4 Give a detail note on various extraction methods of phytoconstituents. (10)
- Q5 Write in detail about industrial production, estimation and utilization of Taxol. (10)
- Q6 Discuss in detail about tracer techniques used for the investigation of biogenetic pathways. (10)

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5th Semester Regular/Back Examination: 2022-23
PHARMACEUTICAL JURISPRUDENCE

Branch: B.Pharma

Max Marks: 75

Time: 3 Hours

Q.Code: L443

Answer Question No.1(Part-A) which are compulsory, any seven from Part-II and any two from Part-III.

The figures in the righthand margin indicate marks.

Part-I**Q1 Objective Answer Type Questions (Answer All)**

(02x10)

- Define drugs and cosmetics as per Drugs and Cosmetics Act.
- Define misbranded and adulterated drugs.
- Write the types of retail sale of drugs. Give two examples of schedule J.
- What is Drug Consultative Committee (DCC)?
- Define rectified spirit as per M&TP Act.
- Give the significance of Drugs Enquiry Committee (DEC).
- Mention the objectives of Pharmaceutical Legislations.
- Differentiate between ethics and laws.
- Mention the responsibilities of Right to Information Act.
- Define patents. Mention types of patents.

Part-II**Q2 Focused-Short Answer type Questions- (Answer Any Seven)**

(05x07)

- What are the classes of drugs prohibited to import into India?
- Define and write the qualifications and duties of government analyst.
- Explain about ware-housing of alcoholic preparations as per M&TP Act.
- Describe the manufacture, sale and export of opium under NDPS Act.
- Define magic remedies. Write the classes of advertisements prohibited under D&MR Act.
- Give the constitution and functions of Institutional Animal Ethical Committee (IAEC).
- Describe the role of pharmacist in relation to his profession.
- Write the salient features of Drugs and Magic Remedies act and its rule.
- Write down the general requirements for labelling and packing of drugs as per Drug & Cosmetic Act.

Part-III**Long Answer type Questions- (Answer Any Two)**

(10x2)

- Write the qualifications, duties, and responsibilities of the drug inspector. Explain the procedure for taking samples by the drug inspector.
- Explain the Registration of pharmacists detailing about first register, qualifications for entry into the first register, subsequent register, and removal of name from the register as per the Pharmacy Act.
- Define Patent. List the inventions that are not patentable within the meaning of the Patent Act. Give offense and penalties under this Act.
- What are the objectives of NDPS Act 1985? Give a detailed account on cultivation, production and sale of poppy straw.