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Total Number of Pages: 01

B.PHARM  
BP501T

5<sup>th</sup> Semester Regular / Back Examination: 2021-22

MEDICINAL CHEMISTRY II

Branch: B. Pharma

Time: 3 Hours

Max Marks: 75

Q Code: OF250

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any two from Part-C.

The figures in the right hand margin indicate marks.

Part- I

- Q1 Objective Answer Type Questions (Answer All) (02×10)**
- a) Outline the synthesis and uses of Meclorothamine (2)
  - b) Outline the synthesis and Mechanisim of action of Acetazolamide (2)
  - c) Give the structure , Nomenclature and use of furosimide (2)
  - d) Give the structure , Nomenclature and use of Digoxin (2)
  - e) Give the role of Omeprazole (2)
  - f) Write the synthesis and use of furosemide (2)
  - g) Define Diuretic (2)
  - h) Write the MOA of pantoprazole (2)
  - i) What is antibiotics ,Give it's examples (2)
  - j) Define anti hypertensive agents , Give it's examples (2)

Part- II

- Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (05×07)**
- a) Define H1- antagonist and write MOA and SAR of Dimenhydrinate (5)
  - b) Write the MOA of merclorothamine (5)
  - c) Define gastric proton pump inhibitor (5)
  - d) Define antibiotics and write about Dactinomycin (5)
  - e) Define antihypertensive agents and write the MOA & synthesis of methyldopa hydrochloride (5)
  - f) Write about dioxin and dig toxin (5)
  - g) Give a note about endocrine system (5)
  - h) Write the SAR of local anesthetics (5)
  - i) Write the SAR of Sildenafil (5)

Part-III

Long Answer Type Questions (Answer Any Two)

- Q3** What is gastric proton pump inhibitor and writ the MOA, uses and SAR of omeprazole and pantoprazole (10)
- Q4** What is sex hormone and give the MOA and uses of testosterone and nandrolone (10)
- Q5** What is anti diabetic agent, Give a note on insulin & write the MOA And SAR of tolbutamide. (10)
- Q6** Explain Vaso Dilators (10)

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B.PHARM  
BP502T

5<sup>th</sup> Semester Regular / Back Examination: 2021-22  
INDUSTRIAL PHARMACY I

Branch: B. Pharma

Time: 3 Hours

Max Marks: 75

Q Code: OF208

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any two from Part-C.

The figures in the right hand margin indicate marks.

Part-I

- Q1 Objective Answer Type Questions (Answer All) (02×10)**
- a) Write on Partition Coefficient. (2)
  - b) Write about polymorphism. (2)
  - c) State about different types of tablet. (2)
  - d) State about various steps of wet granulation for tablet. (2)
  - e) How large volume parenteral differs from small volume parenteral? (2)
  - f) How aerosol can be manufactured? (2)
  - g) State the role of humectant in tooth paste. (2)
  - h) Write down about different chemical properties which affects Preformulation studies of drug. (2)
  - i) How sugar coating differs from film coating. (2)
  - j) Determine the various steps for filling of hard gelatin capsule. (2)

Part- II

- Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (05×07)**
- a) Design the different types of granulation methods (5)
  - b) Design the formulation procedure of soft gelatin capsule. (5)
  - c) Differentiate cold cream and vanishing cream. (5)
  - d) Explain about different types of excipient used in tablet with specific case. (5)
  - e) Justify different components of Aerosol package. (5)
  - f) Explain about different types for sugar coating of tablet. (5)
  - g) Explain about different methods used for emulsion formulation. (5)
  - h) Explain about formulation consideration related to eye lotion. (5)
  - i) Develop manufacturing methods used to lipstick. (5)

Part-III

- Long Answer Type Questions (Answer Any Two) (02×10)**
- Q3 Discuss about evaluation test for Aerosol formulations. (10)
  - Q4 Discuss about quality control test of parenteral formulation. (10)
  - Q5 Discuss about different properties related to Preformulation study. (10)
  - Q6 Discuss about different evaluation parameters of tablet. (10)

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B. Pharm  
BP503T

5<sup>th</sup> Semester Regular / Back Examination : 2021-22

**PHARMACOLOGY- II**

Branch ; B. Pharma

Max Marks : 75

Time : 3 Hours

Q Code : OF297

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 Objective Answer Type Questions (Answer All) (02×10)**
- a) Define Competitive antagonism with appropriate example? (2)
  - b) Define Haematinics with suitable example? (2)
  - c) What is IND application in drug discovery and development? (2)
  - d) Write about therapeutic indications for Simvastatin? (2)
  - e) Define First pass metabolism with suitable examples? (2)
  - f) Define Plasma volume expanders with suitable examples? (2)
  - g) Define Bioassay and enlist its limitations? (2)
  - h) Write functions of Glucagon? (2)
  - i) Write note on Idiosyncrasy? (2)
  - j) Write physiological role of Substance P? (2)

**Part- II**

- Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (05×07)**
- a) Write pharmacology of Coagulants. (6)
  - b) Classify peripherally acting muscle relaxants. Write down the mechanism of action of succinylcholine. (6)
  - c) Classify Anti-epileptics drugs. Write short note on Carbamazepine? (6)
  - d) Enlist the steps during the treatment of barbiturates poisoning? (6)
  - e) Write down the classification, mechanism of action and uses of ganglionic blockers? (6)
  - f) Enlist different types of opioid receptors. Write note on opioid antagonists? (6)
  - g) Write down the pharmacology of local anesthetics with reference to local and systemic effects? (6)
  - h) Classify anti-cholinesterase agents. Write note on pharmacotherapy of Myasthenia gravis? (6)
  - i) What is Poison? Write short note on universal antidote for poisoning? (6)

**Part-III**

**Long Answer Type Questions (Answer Any Two) (02×10)**

- Q3** Explain in detail hemodynamic and electrophysiology of human heart? (10)
- Q4** Define Autacoids. Classify them and discuss the physiological role of histamine? (10)
- Q5** Classify antidepressant agents. Explain the site of action for antidepressant drugs? (10)
- Q6** Write a detailed note on Oral Contraceptives? (10)

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B.PHARM  
BP504T

5<sup>th</sup> Semester Regular / Back Examination: 2021-22  
PHARMACOLOGY AND PHYTOCHEMISTRY-II

Branch: B.Pharma

Time: 3 Hours

Max Marks: 75

Q Code:OF339

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any two from Part-C.

The figures in the right hand margin indicate marks.

Part- A

- Q1 Objective Answer Type Questions (Answer All) (02×10)**
- a) Define Alkaloid and give example of two alkaloidal drugs. (2)
  - b) Define Primary and Secondary metabolites with suitable example. (2)
  - c) Write a short note on Grafting method. (2)
  - d) Chemically classify the Alkaloid with suitable example. (2)
  - e) Write the biological source and chemical constituents of Opium. (2)
  - f) Write down the biological source and chemical constituents of Fennel. (2)
  - g) Write down the biological source and chemical constituents of Ginger. (2)
  - h) Write down the biological sources of Clove & Colophony. (2)
  - i) Write down the identification test of Artemicin. (2)
  - j) Write down the bio-source and chemistry of Taxus. (2)

Part- B

- Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (05×07)**
- a) Write a short note on Acetate-malonate pathway. (5)
  - b) Briefly discuss the methods of Tracer Technique. (5)
  - c) Describe Manske's Process for isolation of Alkaloids. (5)
  - d) Write down the detailed Pharmacognostic Characters of Rauwolfia. (5)
  - e) Write short note on Cardiac Glycoside with suitable example. (5)
  - f) Discuss the isolation and analysis of Podophylotoxin. (5)
  - g) Write notes on choice of solvents used in extraction of Phytoconstituents. (5)
  - h) Write down Isolation, Identification and analysis of Caffeine. (5)
  - i) Write detailed Pharmacognostic characters of Senna. (5)

Part-C

- Long Answer Type Questions (Answer Any Two) (2×10)**
- Q3 Give a detail account on Shikimic Acid Pathway. (10)
  - Q4 Give the significance and application of Tracer Technique. (10)
  - Q5 Explain in details about various methods of extraction of Phytoconstituents. (10)
  - Q6 Write a detailed note on Industrial production and estimation of Digoxin. (10)

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B.PHARM  
BP505T

5<sup>th</sup> Semester Regular / Back Examination: 2021-22  
PHARMACEUTICAL JURISPRUDENCE

Branch: B.Pharma

Time: 3 Hours

Max Marks: 75

Q Code : OF404

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any two from Part-C.  
The figures in the right hand margin indicate marks.

**Part- A** (02×10)

- Q1 Objective Answer Type Questions (Answer All)**
- a) Write a short note on Drug Control Laboratory. (2)
  - b) Write offences and penalties about import of drugs. (2)
  - c) Write about misbranded and adulterated drugs (2)
  - d) Write a short note on role of Chief Medical Officer (CMO). (2)
  - e) State the objective of MTP Act. (2)
  - f) Write a brief review on Pharmaceutical Legislation. (2)
  - g) State clandestine arrangement. (2)
  - h) Write the significance of Drugs Enquiry Committee (DEC). (2)
  - i) Derive the labelling requirements and write specimen label for schedule G. (2)
  - j) Determine spurious drugs as under Drugs and Cosmetics Act. (2)

**Part- B**

**Q2 Focused-Short Answer Type Questions- (Answer Any Seven)** (05×07)

- a) Explain in brief about manufacturing of Ayurveda preparations under M&TP Act. (5)
- b) Illustrate the constitution and functions of Institutional Animal Ethical Committee (IAEC). (5)
- c) Explain the code of ethics for pharmacist in relation to his trade. (5)
- d) Explain Drugs Price Control Order (DPCO). (5)
- e) Explain the objectives and prevention of cruelty to animals. What are the parts of CPCSEA guidelines? (5)
- f) Explain qualifications and duties of Drug Inspector. (5)
- g) Explain opium-popy cultivation as per NDPS Act. (5)
- h) Formulate in detail about loan licenses. (5)
- i) Illustrate a short note on Central Drug Laboratory (CDL). (5)

**Part-C**

**Long Answer Type Questions (Answer Any Two)**

- Q3** Explain the conditions to grant license for manufacture of drugs specified in schedule C, C1 and X. (10)
- Q4** Describe the constitution and functions of PCI. (10)
- Q5** Discuss the qualifications, degrees and powers of Drug Inspector. (10)
- Q6** Discuss the constitution and functions of Drug Technical Advisory Board (DTAB). (10)

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