

Registration No: -

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B. Pharm
BP503T

Total Number of Pages : 01

5th 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)

- Q3 Explain in detail hemodynamic and electrophysiology of human heart? (02×10)**
- 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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Total Number of Pages: 01

5th 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 F
The figures in the right hand margin indicate marks.

Q1 Objective Answer Type Questions (Answer All)

- Write a short note on Drug Control Laboratory.
- Write offences and penalties about import of drugs.
- Write about misbranded and adulterated drugs
- Write a short note on role of Chief Medical Officer (CMO).
- State the objective of MTP Act.
- Write a brief review on Pharmaceutical Legislation.
- State clandestine arrangement.
- Write the significance of Drugs Enquiry Committee (DEC).
- Derive the labelling requirements and write specimen label for schedule G.
- Determine spurious drugs as under Drugs and Cosmetics Act.

Part- B

Q2 Focused-Short Answer Type Questions- (Answer Any Seven)

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

Part-C

Long Answer Type Questions (Answer Any Two)

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



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B.PHAR
BP504

5th Semester Regular / Back Examination: 2021-22
PHARMACOGNOSY 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)

- Define Alkaloid and give example of two alkaloidal drugs.
- Define Primary and Secondary metabolites with suitable example.
- Write a short note on Grafting method.
- Chemically classify the Alkaloid with suitable example.
- Write the biological source and chemical constituents of Opium.
- Write down the biological source and chemical constituents of Fennel.
- Write down the biological source and chemical constituents of Ginger.
- Write down the biological sources of Clove & Colophony.
- Write down the identification test of Artemicin.
- Write down the bio-source and chemistry of Taxus.

Part- B

Q2 Focused-Short Answer Type Questions- (Answer Any Seven)

- Write a short note on Acetate-malonate pathway.
- Briefly discuss the methods of Tracer Technique.
- Describe Manske's Process for isolation of Alkaloids.
- Write down the detailed Pharmacognostic Characters of Rauwolfia.
- Write short note on Cardiac Glycoside with suitable example.
- Discuss the isolation and analysis of Podophylotoxin.
- Write notes on choice of solvents used in extraction of Phytoconstituents.
- Write down Isolation, Identification and analysis of Caffeine.
- Write detailed Pharmacognostic characters of Senna.

Part-C

Q3 Long Answer Type Questions (Answer Any Two)

- Give a detail account on Shikimic Acid Pathway.
- Give the significance and application of Tracer Technique.
- Explain in details about various methods of extraction of Phytoconstituents.
- Write a detailed note on Industrial production and estimation of Digoxin.



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B.PHAR
BP502

5th 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)

(02×1)

- Write on Partition Coefficient.
- Write about polymorphism.
- State about different types of tablet.
- State about various steps of wet granulation for tablet.
- How large volume parenteral differs from small volume parenteral?
- How aerosol can be manufactured?
- State the role of humectant in tooth paste.
- Write down about different chemical properties which affects Preformulation studies of drug.
- How sugar coating differs from film coating.
- Determine the various steps for filling of hard gelatin capsule.

Part- II

Q2 Focused-Short Answer Type Questions- (Answer Any Seven)

(05×1)

- Design the different types of granulation methods
- Design the formulation procedure of soft gelatin capsule.
- Differentiate cold cream and vanishing cream.
- Explain about different types of excipient used in tablet with specific case.
- Justify different components of Aerosol package.
- Explain about different types for sugar coating of tablet.
- Explain about different methods used for emulsion formulation.
- Explain about formulation consideration related to eye lotion.
- Develop manufacturing methods used to lipstick.

Part-III

Long Answer Type Questions (Answer Any Two)

(02×10)

- Discuss about evaluation test for Aerosol formulations.
- Discuss about quality control test of parenteral formulation.
- Discuss about different properties related to Preformulation study.
- Discuss about different evaluation parameters of tablet.



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B.PHAR
BP50

5th 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×

- Outline the synthesis and uses of Meclorothamine
- Outline the synthesis and Mechanism of action of Acetazolamide
- Give the structure, Nomenclature and use of furosimide
- Give the structure, Nomenclature and use of Digoxin
- Give the role of Omeprazole
- Write the synthesis and use of furosemide
- Define Diuretic
- Write the MOA of pantoprazole
- What is antibiotics, Give its examples
- Define anti hypertensive agents, Give its examples

Part- II

Q2 Focused-Short Answer Type Questions- (Answer Any Seven)

(05×

- Define H1- antagonist and write MOA and SAR of Dimenhydrinate
- Write the MOA of meclorothamine
- Define gastric proton pump inhibitor
- Define antibiotics and write about Dactinomycin
- Define antihypertensive agents and write the MOA & synthesis of methyl dopa hydrochloride
- Write about dioxin and dig toxin
- Give a note about endocrine system
- Write the SAR of local anesthetics
- Write the SAR of Sildenafil

Part-III

Long Answer Type Questions (Answer Any Two)

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

