PHR-701

Roll No. | | | | | | | | | | |

Odd semester examination, 2019-20

B.PHARM. (Semester-VII)

Pharmaceutical Industrial Management

TIME: 03:00 Hours **Max. Marks: 100**

Total no. of printed pages: 1

Note : Attempt all questions.

Q1. Answer any **four** out of five: 4×5=20

a. Discuss the compensation given to pharmacist.
b. Explain functions of production management?
c. Name the important feature of good control system.
d. Define the term Directing. Describe various steps involve in Directing.
e. What do you know about Entrepreneurship? Write in brief about different types of Entrepreneurship.

Q2. Answer any **four** out of five: 4×5=20

a) Write the various principles of Coordination.
b) Write the characteristics of Communication.
c) Write the Salient features of Motivation
d) Explain the functions of retail departmental store
e) Mention the qualities of a good leader.

Q3. Answer any **two** out of three: 2×10=20

a) Differentiate between advertisement and sales promotion.
b) Write a short note on Ledger posting and balance sheet.
c) Define the term Economics. Explain the principles of economics with special reference to the law of demand and supply.

Q4. Answer any **two** out of three: 2×10=20

a) Define the term Marketing. Name the various marketing functions. Explain any two functions in detail.
b) Discuss the various techniques of sales promotion. Write the objectives of sales promotion.
c) Explain space management optimization is the key to success of an organization

Q5. Answer any **two** out of three: 2×10=20

a) Write a note in detail on Procurement and Receipt.
b) Explain the term "Demand" .what is demand curve? Mention the factors which influence the demand for a commodity?
c) What is Market research? Discuss the nature, significance of market research in modern business with special reference to pharmaceutical industry.

PHR-702

Roll No. | | | | | | | | | | |

B. Pharma (Semester-VII)
PHARMACEUTICS - VII (BIO PHARMACEUTICS & PHARMACOKINETICS)

Time: 3 hours | Max. marks: 100

Total no. of printed pages: 1

Note: Attempt all questions, each questions carry equal marks.

1. Attempt **any four** of the following: (5x4=20)
   a) Discuss the pH partition hypothesis and limitations of this hypothesis.
   b) Brief note on Clinical pharmacokinetics.
   c) What are the basic theories of dissolution.
   d) Various factors affecting absorption of drug from the GIT.
   e) Short note on Active transport.

2. Attempt **any four** of the following: (5x4=20)
   a) Significance of plasma drug concentration profile.
   b) Define Bioequivalence. What is the need of bioequivalence studies?
   c) Metabolism of drug in the body
   d) Write derivation of one compartment open model assuming drug is administered through i.v. bolus injection
   e) Discuss Wagner Nelson method for determination of absorption rate constant.

3. Attempt **any four** of the following: (5x4=20)
   a) Differentiate between zero & first order kinetics.
   b) What do you understand by distribution coefficient?
   c) Short note on drug-drug interaction & their role in combination therapy.
   d) Discuss the terms organ clearance & intrinsic clearance.
   e) Discuss the purpose of IVIVC.

4. Attempt **any 2** of the following: (10x2=20)
   a) Various pharmacokinetic parameters obtained from drug plasma level profile.
   b) Explain the concept of drug protein binding. Discuss the impact of protein binding on different pharmacokinetic parameters of the drug.
   c) Define volume of distribution. Enlist and discuss various pharmacokinetic parameters calculated from plasma and urine data after drug administration from oral route.

5. Attempt **any 2** of the following: (10x2=20)
   a) Discuss the process of elimination of drug from the body, emphasizing on the renal route.
   b) Describe the mechanism of renal excretion of drugs.
   c) Write a note on regulatory requirements for conduction of bioequivalence study.

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Odd Semester Examination 2019-20
B. Pharma. 4th Year (Semester-VII)
MEDICINAL CHEMISTRY-III

Time: 03:00 Hrs **Max Marks:100**

Total no. of printed pages: 1

Note: All questions are compulsory.

Q1. Attempt any four of the following: 4x5=20

(a) Give in detail about introduction, Nomenclature and Stereochemistry of Steroids.
(b) Discuss structure activity relationship of sex hormones.
(c) What is Estrogens and classify it. Write the synthesis of Estradiol.
(d) Classify Adrenocorticoids and write the synthesis of Betamethasone.
(e) Give the classification of Anti-fertility drugs and MOA of Progesterone.

Q2. Attempt any four of the following: 4x5=20

(a) What is Penicillin?, classify it and MOA of Penicillin.
(b) Classification of Tetracycline, write the MOA of Tetracycline.
(c) What are mycobacteria? Classify Antimycobacterial drugs, MOA of Isoniazid.
(d) Classify Quinolones and write the SAR of Quinilone.
(e) Give structure, mechanism of action and synthetic method of any two isoniazid, norfloxacin, nalidixic acid.

Q3. Attempt any four of the following: 4x5=20

(a) Give the classification of Antimalarial drugs and MOA of Chloroquine.
(b) Write the classification of Antiamoebic drugs and give the synthesis of Metronidazole.
(c) Classify Antiseptic and Disinfectant, synthesis of Benzalkonium.
(d) Classify Antifungal drugs, give the synthesis of Clotrimazole.
(e) Write the classification of Antibacterial drugs and SAR of Sulphonamide.

Q4. Attempt any four of the following: 4x5=20

(a) Classify Antiviral drugs and MOA of Idoxuridine.
(b) Write the classification of Anticancer drugs and MOA of Methotrexate.
(c) Give the classification of Prostaglandins and synthesis of Misoprostol.
(d) Classify Anti-HIV drugs and MOA of Reverse Transcriptase inhibitor.
(e) Discuss in detail alkylating agents.

Q5. Attempt any two of the following: 2x10=20

(a) Write the classification of Thyroid and Antithyroid drugs, synthesis of Carbimazole and MOA of Thiourea.
(b) What is hypoglycaemics? Classify it, write the MOA of Insulin and synthesis of Metformin.
(c) i) Synthesis of Tolbutamide and Methimazole.
ii) SAR and MOA of Sulfonylurea.

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Roll No.

OddSemester Examination 2019-20
B.Pharm 7th Semester
Pharmacology- III

Time: 03:00 Hours **Max.Marks : 100**

Total no. of printed pages: 1

Note:All questions are compulsory.

Q1. Attempt all questions in brief. 10x2=20

a. Define therapeutic index.
b. Define Pharmacoepidemiology.
c. Write mechanism and effect of Hydrotherapy.
d. Define Chromotherapy.
e. Write adverse effects of Rifampin
f. Write mechanism of action of Dapsone.
g. Enlist uses of Azithromycin.
h. Write two toxic effects of Gentamicin.
i. Enlist uses of vitamin D.
j. Define Toxicology.

Q2. Write MoA, Side effect and therapeutic use of any **Five** 5×4=20

a. Mertronidazole
b. Primaquine
c. Albenazaole
d.Griesofulvin
e. Raloxifene
f. Vincristine

Q3. Attempt any **Two** of the following. 2×10=20

a) Define Diabetes. Classify oral hypoglycemic drugs and discuss mechanism of actions and adverse of Sulfonylurea and Biguanides.
b) Enumerate drugs used in hyperthyroid drugs. Write a note on propylthiouracil.
c) Write mechanism of action, adverse effects and uses of Penicillin, Methotrexate, Mercaptopurine and Fluorouracil.

Q4. Attempt any **Two** of the following. 2×10=20

a) Explain synthesis, storage and release of corticosteroids with pharmacological actions.
b) Write short note on
(i) organophosphorus poisoning (ii)pharmacology of testosterone.
c) Define Bioassay, its principles. Explain bioassay methods of oxytocin.

5. Attempt any **Two** of the following. 2×10=20

a) Discuss drug resistance in detail with special reference to antitubercular drugs.
b) Classify Chemotherpeutic agent based on mechanism of action Write short note on fluoroquinolone.
c) Classify antiviral drugs and discuss mechanism of action and uses of Acyclovir.

PHR 705 **Total no. of printed pages: 1**

Roll No. | | | | | | | | | | |

Odd Semester Examination2019-20
B.Pharma. (SEMESTER VII)
PHARMACOGNOSY-IV

Time: 03:00 Hours **Max Marks : 100**

Note: All questions are compulsory.

Q1. Give Biological source, macroscopic character, chemical constituents and uses of **any four** of the following drugs. **4x5=20**

(a) Nux-vomica
(b) Kurchi
(c) Tea
(d) Vasaka
(e) Tobacco

Q2. Attempt any **Four** of the following. **4×5=20**

(a) Write a note on application of plant tissue culture in Pharmacognosy.
(b) Write an explanatory note on Nutritional requirement for plant tissue culture media.
(c) Define the term plant tissue culture. Explain the growth and maintenance of PTC.
(d) Write a note on Historical development of plant tissue culture.
(e) Name the types of plant tissue culture and explain callus culture.

Q3. Attempt any **Two** of the following. **2×10=20**

(a) Define Enzyme. Write a note on Papain.
(b) Discuss Plant bitters and sweeteners with suitable examples.
(c) Give biological source, preparation, identification test and uses of Penicillinase or Diastase.

Q4. Attempt **any two** of the following **2x10=20**

(a) Write a note on alkaloids. Give official source, macroscopic characters, chemical constituents and uses of opium.
(b) Write down worldwide trade of Liquorice and Aloe.
(c) Describe the life cycle of ergot. Give an account of its active constituents and therapeutic uses.

Q5. Attempt any **Two** of the following. **2×10=20**

(a) Write in brief about the techniques employed in elucidation of biosynthetic pathways.
(b) Write in brief about role of medicinal and aromatic plants in national economy.
(c) Give the worldwide trade of Taxol Or Rauwolfia.