
B. Pharmacy 7th
Semester
Question Paper
2017-2018

Odd Semester Examination, 2017-18**B.PHARMA. (SEMESTER-VII)****PHARMACEUTICAL INDUSTRIAL MANAGEMENT****Time: 03:00 Hours****Max Marks : 100****Note :** Attempt all question.

1. Attempt **any four** questions : (5x4=20)
 - (a) Give characteristics of Coordination.
 - (b) Write a note on Taylor's scientific management.
 - (c) Explain communication. Write about salient features of nonverbal communication.
 - (d) Explain how cost accounting is different from financial accounting?
 - (e) Discuss in detail profit and loss account.
2. Attempt **any four** questions : (5x4=20)
 - (a) Establish a relationship between demand and supply. Support your answers with figures and graphs applicable to it.
 - (b) Write a note on entrepreneurship development.
 - (c) Describe step-by-step approach in decision making.
 - (d) Explain problems in bank reconciliation.
 - (e) Write the importance of innovation and creativity.
3. Attempt **any two** questions : (10x2=20)
 - (a) Enumerate and explain various channels of distribution.
 - (b) Discuss recruitment and training of pharmacist as salesperson.
 - (c) Explain the procedure for procurement and receipt in supply chain management.

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4. Attempt **any four** questions :

(5x4=20)

- (a) Write about ethics of sales in Pharma marketing.
- (b) Give an account of Channels of distribution.
- (c) Write down the difference between selling concept and marketing concept.
- (d) Write about significance of columns in a cashbook.
- (e) Explain the impact of feedback information on marketing.

5. Attempt **any two** questions :

(10x2=20)

- (a) Write advertising as applicable to pharmaceutical formulations.
- (b) Write about the process involved in cost accounting.
- (c) Write about formulation record rules and maintenance of records applicable to formulations.

Odd Semester Examination, 2017-18**B.PHARMA. (SEMESTER-VII)****PHARMACEUTICAL-VII****(BIOPHARMACEUTICS & PHARMACOKINETICS)****Time: 03:00 Hours****Max Marks : 100****Note :** Attempt **all** questions, each question carry **equal** marks.

1. Write short notes on **any four** of the following : (5×4 = 20)
 - (a) Discuss in brief about passive diffusion of drug.
 - (b) With proper diagram discuss about Blood-Brain-Barrier
 - (c) pH partition hypothesis and its limitation
 - (d) Theories of drug dissolution
 - (e) Cytochrome P-450 oxidation-reduction cycle.
2. Write short notes on any four of the following: (5×4 = 20)
 - (a) Sigma-minus method
 - (b) Volume of distribution
 - (c) One compartment open model extra vascular first order administration.
 - (d) Significance of plasma drug concentration measurement
 - (e) Scope of clinical pharmacokinetics
3. Write notes on **any two** of the following: (10×2 = 20)
 - (a) What is pharmacokinetic model? Define compartment model. What are the different types of compartment model? Determine the pharmacokinetic parameters from plasma data after IV infusion administration of drug.

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- (b) Estimate absorption rate constant (K_a) for a drug that follows one compartment kinetic using "Wagner-Nelson method".
- (c) What is the significance of plasma drug concentration measurement? Write a descriptive note on "Non-compartment model".
4. Write notes on **any two** of the following: (10×2 = 20)
- (a) Make a comment on "Dosage adjustment in patients with renal failure".
- (b) Concept of clearance
- (c) Write a descriptive note on pharmacokinetic drug interaction with suitable example.
5. Write notes on **any two** of the following: (10×2 = 20)
- (a) Define bioavailability. What do you mean by absolute and relative bioavailability? What are the different measurement procedures of bioavailability? Discuss briefly about them.
- (b) Define bioequivalence. Discuss briefly about bioequivalence experimental study design.
- (c) Make points on "Regulatory requirements for conduction of bioequivalent studies".

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B.PHARMA. (SEMESTER-VII)

PHARMACEUTICAL CHEMISTRY-VIII

(MEDICINAL CHEMISTRY-III)

Time: 03:00 Hours

Max Marks : 100

Note : Attempt all questions.

1. Attempt **any four** of the following : (4x5=20)
 - (a) Discuss the SAR of Estrogens and Progestogens.
 - (b) Discuss the mode of action & Synthesis of Progesterone.
 - (c) Define adrenocorticoids, give the SAR and Synthesis of Prednisolone.
 - (d) Discuss the biosynthesis, mechanism of action and uses of cholesterol.
 - (e) Discuss the biosynthesis, mechanism of action and uses of Dexomethasone.
2. Attempt **any four** of the following : (4x5=20)
 - (a) Classify antibiotics and write down the mode of action of streptomycin.
 - (b) Discuss the SAR and mode of action of penicillin.
 - (c) Give the classification, mechanism of action and uses of antimicrobial agent with example.
 - (d) Discuss the SAR and Synthesis of Isoniazide.
 - (e) Discuss the biosynthesis, mechanism of action and uses of norflaxacin.
3. Give the synthesis, mechanism of action and uses of the following (**any four**) : (4x5=20)
 - (a) Chloroquine
 - (b) Metronidazole

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- (c) Clotrimazole
- (d) Sulphamethoxazole
- (e) Artemesinine

4. Attempt **any two** of the following :

(10x2=20)

- (a) Classify Anti-HIV agent and give the synthesis of zidovudine and zalcitabine.
- (b) Discuss the structure and mechanism of action and synthesis of 5-fluorouracil and misoprostal.
- (c) Classify Anti-cancer agent and give the synthesis mechanism of action and uses of chlorambucil and methotrexate.

5. Attempt **any two** of the following

(10x2=20)

- (a) Define thyroid and anti thyroid and give the synthesis, mechanism of action and uses of carbimazole.
- (b) Discuss the detail about the structure and uses of insulin.
- (c) Give the structure, synthesis, mechanism of action and uses of metformin.

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B.PHARMA. (SEMESTER-VII)

PHARMACOLOGY -III

Time: 03:00 Hours

Max Marks : 100

Note : Attempt all question, each question carries equal marks.

1. Attempt **any four** questions: (5 x 4 = 20)
 - (a) Explain the pharmacological action of the hormones secreted by posterior pituitary.
 - (b) Write the pharmacological action of insulin.
 - (c) Discuss the pharmacological action, ADRs and uses of Thyroid drug.
 - (d) Classify Anti diabetic drugs and explains the MOA and ADR effects of the sulfonylurea.
 - (e) Explain the synthesis, secretion and uses of Thyroid hormones (T_3 and T_4)
2. Attempt **any four** questions: (5 x 4 = 20)
 - (a) Estrogen in hormone replacement therapy.
 - (b) Injectable contraceptives.
 - (c) Classify oxytocic. Write MOA and uses of the oxytocin.
 - (d) Alkylating agent in cancer.
 - (e) Write in brief about Androgen.
3. Attempt **any two** questions: (10 x 2 = 20)
 - (a) Classify anti cancer drug. Write short note on any two of them.
 - (b) Principle involved in Bioassay and discuss the method of Bioassay of Acetylcholine.
 - (c) Give the general method for treatment of Poisoning.

4. Attempt **any four** questions:

(5 x 4 = 20)

- (a) Insulin preparation.
- (b) DOTS IN Tuberculosis.
- (c) Symptoms of atropine poisoning.
- (d) Write about principle of Toxicology.
- (e) Multi-drug resistance.

5. Attempt **any two** questions:

(10 x 2 = 20)

- (a) Classify antiviral drug and discuss pharmacology of anti-herpes viral drug.
- (b) Write short note on immunomodulators.
- (c) Pharmacology of Tetracycline.

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Odd Semester Examination, 2017-18**B.PHARMA. (SEMESTER-VII)****PHARMACOGNOSY-IV****Time: 03:00 Hours****Max Marks : 100****Note :** Attempt **all** questions.

1. Attempt **any four** questions : (5 x 4 = 20)
 - (a) Catharanthus
 - (b) Ergot
 - (c) Belladonna
 - (d) Write biogenesis of hysocine and hyoscyamine.
 - (e) Write biogenetic pathway of Morphine
2. Attempt **any four** questions : (5 x 4 = 20)
 - (a) Nutritional requirement for Plant Tissue Culture
 - (b) Write short note on Plant Bitters
 - (c) Write short note on Plant Sweeteners
 - (d) Illustrate the biological source, macroscopy, microscopy, chemical constituents and uses of Ephedra
 - (e) Role of medicinal and aromatic plants in National Economy
3. Attempt **any two** questions : (10 x 2 = 20)
 - (a) Discuss complete Pharmacognosy of Datura
 - (b) Discuss complete Pharmacognosy of Opium
 - (c) Discuss source, preparation, tests and uses of Papain and diastase enzymes

4. Write biological source, chemical constituents, microscopy and uses of **any four** drugs : (5 x 4 = 20)

- (a) Pilocarpus
- (b) Kurchi
- (c) Vasaka
- (d) Nux-vomica
- (e) Cinchona

5. Attempt **any two** questions : (10x2=20)

- (a) Discuss worldwide trade of medicinal plants.
- (b) What is plant tissue culture? Discuss its types and applications in Pharmacognosy.
- (c) What are primary and secondary metabolites? Discuss techniques employed in elucidation of biosynthetic pathways.
