

Time : 2-30 Hours]

[Max. Marks : 70

**Instructions:**

- Question-1 to Question-4 are compulsory.
- Attempt any fourteen questions in question.5.

**Que. 1 Describe the following:**

- a) Explain G-Protein Coupled Receptors. 07
- b) Explain in detail the Dosage forms for External application. 07

OR

**Que. 1 Describe the following:**

- a) Draw a labelled diagram of drug plasma concentration vs. time curve and explain each terminology in brief. 07
- b) Write a brief note on Drug Synergism and drug Antagonism. 07

**Que. 2 Describe the following:**

- a) Classify Antiepileptic drug and describe drugs inhibiting sodium channel. 07
- b) Classify anti diabetic drug and explain oral hypoglycemic agent in detail. 07

OR

**Que. 2 Describe the following:**

- a) Classification of anti-diabetic drug and explain insulin secretagogues in detail. 07
- b) Classify Opioid analgesics and write short note on Morphine. 07

**Que. 3 Describe the following:**

- a) Give Classification of Sympatholytic and Explain Beta-Blockers in detail. 07
- b) Write a Short Note on Anti Arrhythmic Agents. 07

OR

**Que. 3 Describe the following:**

- a) Classification of drugs used in heart failure and explain cardiac glycoside in detail. 07
- b) Give classification of Antihyperlipidemic drugs & Explain HMG-CoA Reductase inhibitor. 07

**Que. 4 Describe the following:**

- a) Write a note on Barbiturates. 07
- b) Explain angina and its types and write in detail Anti-anginal drugs. 07

OR

**Que. 4 Describe the following**

- a) Write a short note on beta lactum antibiotic in detail. 07
- b) Write mechanism of antibiotic resistance in detail with diagram. 07

P.T.O

**Module III General Pharmacology & Pharmacokinetic  
& Pharmacodynamic of Drugs**

**Que. 5 Answer the following (write any 14 out of 17)**

**14**

- 1) Enlist common adverse effects with Anti microbial chemotherapy.
- 2) Define: Empiric therapy.
- 3) Give example of Physiological Dependence .
- 4) Full form of VLDL \_\_\_\_\_
- 5) Anti hyperglycemic drugs cause hypoglycemia! True/False. State with reason.
- 6) Define: Emulsion.
- 7) Explain Therapeutic Index.
- 8) Define: Cumulation.
- 9) Define: First Pass Metabolism.
- 10) Define Epilepsy and its type.
- 11) Full form: GAD.
- 12) Justify use of Metformin in PCOD.
- 13) Flurazepam is intermediate acting benzodiazepines. True/false.
- 14) Define: AUC.
- 15) Give Full Form of GABA.
- 16) Paracetamol will change to ionized form in basic pH, so it will be more absorbed from intestine. True/False?
- 17) Fenconil like syndrome is adverse effect of:  
a) Sulfonamide b) Tetracycline c) Penicillin d) Quinolons

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