

MSc Sem.-1 Examination

403

Clinical Research

February-2025

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) Give classification of route of administration and explain each route in detail. 07
- b) Define pharmacokinetic. Describe factors affecting Drug action. 07

OR

Que. 1 Describe the following:

- a) Discuss adverse drug reaction in detail with suitable examples. 07
- b) Draw a labeled diagram of AUC and C_{max} and explain each terminology in regardless to bioavailability of drug. 07

Que. 2 Describe the following:

- a) Classify anxiolytics –hypnotic drug and Explain Benzodiazepines in detail. 07
- b) Write Classification of drug for chronic CNS depression. 07

OR

Que. 2 Describe the following:

- a) Classify Opioid analgesics and write short note on Morphine. 07
- b) Short note on Stages of General Anaesthesia. 07

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. 07

OR

Que. 3 Describe the following:

- a) Classify Respiratory drugs & explain any one class. 07
- b) Classify anti-hypertensives and write in detail on any one class of drugs. 07

Que. 4 Describe the following:

- a) Classify anticancer drug and describe natural alkaloids and alkylating agent in detail. 07
- b) Classify anti diabetic drug and explain oral hypoglycemic agent in detail. 07

OR

Que. 4 Describe the following

- a) Discuss Antiplatelet agents. 07
- b) Write mechanism of action, resistance, adverse effects and therapeutic uses and spectrum of activity of anti-bacterial drugs. 07

(P.T.O)

E1421-2

**MSCCR103-Module III General Pharmacology & Pharmacokinetic
& Pharmacodynamic of Drugs**

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

14

- 1) Define : Toxicology
- 2) Define : Excipients
- 3) Define : Pharmacogenomics
- 4) Write full form of RAS _____
- 5) Chronic use of Calcium channel blockers cause heart failure. True/False. Justify
- 6) Give examples of Opioid drugs
- 7) Give name of types of receptors drug interaction.
- 8) Define : Leprosy
- 9) Define: adverse effects
- 10) Enlist any 3 typical adverse effects of anti parkinsonism agents
- 11) Define; Pk/Pd.
- 12) What are types of Agonist.
- 13) Define: Qinolones.
- 14) Define: half-life.
- 15) Write full form of NSAIDS _____
- 16) Write advantages of IV route
- 17) Define: Carcinogenicity.