

Final Year (New) Pharmacy
PHARMACOLOGY AND TOXICOLOGY
(203)

Time : Three Hours**Maximum Marks : 80**

Note : Attempt total six questions. Question No.1 is compulsory. From the remaining questions attempt any five.

1. a) Explain the following terms (Any five) 5
- i) Therapeutic index
 - ii) Idiosyncrasy
 - iii) First Pass Effect
 - iv) Antagonism
 - v) Agonist
 - vi) Potency
 - vii) Bioavailability
- b) Write the source of the following drugs (Any five) 5
- i) Morphine
 - ii) Reserpine
 - iii) Chloroquine
 - iv) Tetracycline
 - v) Streptomycin
 - vi) Rifampicin

2. Attempt any two-

2×7

- a) Enlist various routes of administration. Give the advantages and disadvantages of parenteral route.
- b) Explain the term pharmacokinetics. Discuss the various pathways of drug metabolism.
- c) Write short note on:
 - i) Protein Binding
 - ii) Biological Barriers

3. Attempt any two-

2×7

- a) Explain drug to drug interaction. Discuss the pharmacokinetic interactions with suitable example.
- b) Classify general Anaesthetics. Discuss the various stages of general Anaesthesia.
- c) Discuss the pharmacology and adverse drug reaction of morphine.

4. Attempt any two-

2×7

- a) Differentiate between any two
 - i) Sedative and Hypnotics.
 - ii) Narcotic and Non-Narcotic analgesics.
 - iii) General and local Anaesthetics.
- b) Classify epilepsy and antiepileptic drugs. Give the pharmacology of phenytoin.
- c) Write a note on (Any one)
 - i) Anti-Parkinsonism drugs
 - ii) Anti-Gouts drugs

5. Attempt any two-

2×7

- a) Discuss the pharmacology of Adrenaline.
- b) Discuss the mechanism of action and pharmacological action of Digitalis glycoside.
- c) Write a note on any one-
 - i) Antiarrhythmic drugs.
 - ii) Drugs used in angina pectoris.

6. Attempt any four-

4×3½

Give reasons for the following.

- i) Sulfonamides are ineffective in the presence of pus.
- ii) Tetracycline is not given with milk and milk products.
- iii) Vitamin D is given with calcium.
- iv) In the treatment of tuberculosis, drugs are always given in combination. <http://www.rgpvonline.com>
- v) Adrenaline is given with local anaesthetics.

7. Write the category, therapeutic uses and adverse drug reaction of the following (Any 7)

7×2

- i) Verapamil
- ii) Quinidine
- iii) Aspirin
- iv) Phenobarbitone
- v) Furosemide
- vi) Streptomycin
- vii) Rifampicin
- viii) Griseofulvin
- ix) Chloroquine
- x) Amantadine

8. Attempt any two -

2×7

- a) Give the life cycle of malarial parasite.
- b) Give the mechanism of action, therapeutic uses and adverse reaction of the following.
 - i) Gentamycin
 - ii) Penicillin
 - iii) Sulfonamide
 - iv) Chloramphenicol
 - v) Dapsone
 - vi) Pyrimethamine
 - vii) Methotrexate
- c) Write note on:
 - i) Superinfection.
 - ii) Bacterial Resistance.

