



PH-III(N)

2023

PHARMACOLOGY

Full Marks: 80

Time Allowed: 3 Hours

1×10=10

1. Choose the correct alternative (any ten):

- i) Rifampicin acts by inhibiting the synthesis of bacterial _____ (RNA / DNA / Protein / Cell wall).
- ii) An example of muscarinic receptor antagonist is _____ (Acetylcholine / Atropine / Adrenaline / Dopamine).
- iii) Furosemide causes all, except _____ (Hypercalcemia / Hypokalaemia / Ototoxicity / Hyperuricemia).
- iv) An example of prodrug is _____ (enalapril / penicillin / gentamycin / streptomycin).
- v) An antineoplastic antibiotic is _____ (Methotrexate / Doxorubicin / 6-Thioguanine / 5-Fluorouracil).
- vi) All the narcotic analgesic acts on _____ (Chemoreceptor / Mechanoreceptor / Photoreceptor / Opiate receptor).
- vii) A very popular drug to treat Myasthenia gravis is _____ (Aspirin / Verapamil / Pyridostigmine / Propranolol).
- viii) Metronidazole is used as _____ (Anthelmintics / Antitubercular agent / Anti amoebic agent / Antimalarial agent).
- ix) Dimercaprol is known as _____ (PAM / BAL / PAS / DMC).
- x) Indomethacin is _____ (Aphrodisiac / Non-steroidal anti-inflammatory / Sedative / Anti-emetic) drug.
- xi) Example of oral hypoglycaemic is _____ (chlorpropamide / tolazamide / metformin / all).

1×10=10

2. Define the following terms (any ten):

- ☒ i) Drug tolerance
- ☒ ii) Pharmacokinetics
- ☒ iii) Cycloplegia
- ☒ iv) Diuretics
- ☒ v) Therapeutic index
- ☒ vi) Chemotherapeutics
- ☒ vii) Synergism
- ☒ viii) Meiotics
- ☒ ix) Cardiotonics
- ☒ x) Tranquilizers
- ☒ xi) Analgesics



3. Answer the following questions (any ten):

3×10=

- i) Discuss about the various factors affecting drug metabolism.
- ii) Write the Mode of Action of Benzodiazepines.
- iii) List the drug of choice in myasthenia gravis.
- iv) Write a short note on Local anaesthetics.
- v) Write a short note on Beta blockers- Give examples and uses of these drugs.
- vi) Write the Mechanism of action of Sulphonamides.
- vii) What are antithyroid drugs? Explain the disorders related to thyroid hormones.
- viii) What are NSAIDs? Write the uses of NSAIDs.
- ix) Write a short note on ulcer healing agents.
- x) Give reasons- Drug combination is preferred in tuberculosis treatment rather than single treatment.
- xi) Give reasons- Insulin is not administered orally.
- xii) Give reasons- Tetracycline is not given with milk.

4. Answer the following questions (any six):

5×6=

- i) Write a short note on Glaucoma.
- ii) What are diuretics? Classify diuretics with suitable examples.
- iii) Write a short note on Oral hypoglycaemic agents.
- iv) Write down the chemotherapy of malaria.
- v) Explain the antitussive drugs with examples.
- vi) Write the MOA of sulphonamides.
- vii) Write causes and symptoms of depression. Classify antidepressants with examples.
- viii) Define cardiac arrhythmia. Classify anti-arrhythmic agents with examples.