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Total Pages : 4

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

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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

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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.
 - 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

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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.



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