



03/22

The West Bengal University of Health Sciences
MBBS 2nd Professional Examination (New Regulation) May 2022

Subject: Pharmacology**Full Marks: 100****Paper: II****Time: 3 hours**

Attempt all questions. The figures in the margin indicate full marks.

1. a) A 45 year old male visits to a physician with complaint of insomnia due to stress in the office. He was prescribed one Benzodiazepine as hypnotic.
 - a) Enumerate two Benzodiazepines used as hypnotic.
 - b) Discuss mechanism of action and therapeutic uses of benzodiazepines as hypnotic.
 - c) Compare and contrast: Benzodiazepines and Barbiturates. 2+4+4+5

- b) A 23 year old male arrives at emergency, with difficulty breathing, with history of recurrent episodes of seasonal breathlessness, relieved on inhalational medication. Now the patient is diagnosed as a case of bronchial asthma
 - a) Classify the drug used in bronchial asthma.
 - b) How will you manage a case of acute bronchial asthma?
 - c) How do inhalational drugs act better in bronchial asthma? 5+5+5

2. a) Write a note on prophylactic treatment of malaria. Outline mechanism of action and four adverse effect of chloroquine. 5+3+2
 - b) Classify oral contraceptives. Describe the clinical uses of contraceptives. 5+5
 - c) Enumerate the drugs used in peptic ulcer. How will you manage a case Helicobacter pylori infection? 5+5

3. Write short notes on following: 2 x 5
 - a) Pharmacotherapy of diabetic ketoacidosis.
 - b) Rifampicin (mechanism of action therapeutic uses, ADR).

4. Explain the following statements: 5 x 4
 - a) Corticosteroid use over long term can be harmful.
 - b) Tricyclic antidepressants are not preferred in elderly male subjects.
 - c) Injection thiopentone sodium is not used as a maintenance agent in general anesthesia.
 - d) Ergometrine should not be used for induction of labour.
 - e) Leucovorin rescue is mandatory in methotrexate therapy.

5. Choose the correct option for each of the following: 10 x 1
 1. One of these is not an anabolic steroid.
 - a) Stanozolol
 - b) Delta⁹ tetrahydrocannabinol
 - c) Oxandrolone
 - d) Nandrolone

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2. Actions of growth hormone include the following except :
 - a) Increased protein synthesis
 - b) Increased fat utilization
 - c) Increased carbohydrate utilization
 - ☒ d) Glucose intolerance
3. Which anti inflammatory agent is used in colon cancer.
 - a) Prednisolone
 - b) Celecoxib
 - ☒ c) Indomethacin
 - d) Colchicine
4. Which of these doesn't act on proton pump in stomach.
 - a) Rabeprazole
 - b) Esomeprazole
 - ☒ c) Pirenzepine
 - d) Pantoprazole
5. Drug of choice in Treponema pallidum infection
 - a) Gentamicin
 - b) Cefuroxim
 - c) Azithromycin
 - ☒ d) Penicillin
6. One of the opioids is so highly potent that it cannot be used in human.
 - a) Buprenorphine
 - ☒ b) Etorphine
 - c) Codeine
 - d) Morphine
7. The H1 Antihistaminic which is used topically in the nose for allergic rhinitis
 - ☒ a) Loratadine
 - b) Cetirizine
 - c) Fexofenadine
 - d) Azelastine
8. Local anaesthetic used in malignant hyperthermia is:
 - ☒ a) Bupivacaine
 - b) Procaine
 - c) Cocaine
 - d) Tetracaine
9. Which of the following is a 5HT receptor agonist ?
 - a) Ondansetron
 - b) Ketanserin
 - ☒ c) Sumatriptan
 - d) Risperidone
10. Carbimazole acts by inhibiting :
 - a) Iodide trapping
 - b) Oxidation of iodide
 - c) Proteolysis of thyroglobulin
 - d) Synthesis of thyroglobulin protein