

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

Subject: Pharmacology
Paper: II

Full Marks: 100
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 anaesthesia.
 - 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

P.T.O

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