

CBME**Dr NTR UNIVERSITY OF HEALTH SCIENCES : VIJAYAWADA - 8****MBBS DEGREE EXAMINATION - JANUARY, 2025****SECOND M.B.B.S. EXAMINATION****PHARMACOLOGY -PAPER-I (SET-C)****(Multiple Choice Questions)****Time: 20 Minutes****Max Marks: 20****Note: Answer all questions.**

SECTION-I (MCQs - 20 MARKS)**1X2=20**

- 1) Down regulation of receptors can occur as a consequence of:
 - a. Denervation
 - b. Continuous use of antagonists
 - c. Chronic use of CNS depressants
 - d. Continuous use of agonists
- 2) The following attribute of a drug tends to reduce its volume of distribution:
 - a. High lipid solubility
 - b. Low ionization at physiological pH values
 - c. High plasma protein binding
 - d. High tissue binding
- 3) The following is an α_2 adrenergic agonist used as eyedrops to lower intraocular pressure:
 - a. Brinzolamide
 - b. Bambuterol

- c. Brimonidine
- d. Latanoprost

4) Transdermal drug delivery systems offer the following advantages **except**:

- a. They produce high peak plasma concentration of the drug
- b. They produce smooth and non-fluctuating plasma concentration of the drug
- c. They minimize inter individual variations in the achieved plasma drug concentration
- d. They avoid hepatic first-pass metabolism of the drug

5) N-acetyl cysteine is beneficial in acute paracetamol poisoning because

- a. It reacts with paracetamol to form a nontoxic complex
- b. It inhibits generation of the toxic metabolite of paracetamol
- c. It is a free radical scavenger
- d. It replenishes hepatic glutathione which in turn binds the toxic metabolite of paracetamol

6) Select the drug which can improve urinary flow rate in benign prostatic hypertrophy without affecting prostate size

- a. Amphetamine
- b. Terazosin
- c. Finasteride
- d. Goserelin

7) Select the most suitable antiarrhythmic drug for counteracting ventricular extrasystoles due to digoxin toxicity

- a. Lignocaine

- b. Quinidine
- c. Verapamil
- d. Amiodarone

8) Arginine vasopressin is preferred over desmopressin in the following condition

- a. Diabetes insipidus
- b. Bedwetting in children
- c. Bleeding esophageal varices
- d. Bleeding in haemophilia

9) The calcium channel blocker used for prophylaxis of migraine but not for angina pectoris is

- a. Verapamil
- b. Diltiazem
- c. Flunarizine
- d. Amlodipine

10) Dantrolene sodium reduces skeletal muscle tone by

- a. Reducing acetylcholine release from motor nerve endings
- b. Suppressing spinal polysynaptic reflexes
- c. Inhibiting the generation of muscle action potential
- d. Reducing Ca^{2+} release from sarcoplasmic reticulum in the muscle fibre

11) Disease modifying antirheumatic drugs are indicated in rheumatoid arthritis

- a. In place of NSAIDs in patients who do not tolerate the latter

- b. Along with NSAIDs in patients with progressive disease
- c. Only when NSAIDs fail to afford symptomatic relief
- d. In all patients irrespective of disease status/concurrent medication

12) Select the antihistaminic which modulates calcium channels and has prominent labyrinthine suppressant property

- a. Cyproheptadine
- b. Cinnarizine
- c. Clemastine
- d. Cetirizine roxyzine

13) Select the drug which is an 'modulator' beneficial in refractory congestive heart failure

- a. Nicorandil
- b. Amiodarone
- c. Aminone
- d. Carvedilol

14) Which general anaesthetic selectively inhibits excitatory NMDA receptors

- a. Thiopentone
- b. Halothane
- c. Desflurane
- d. Ketamine

15) Which of the following drug is a potassium channel opener

- a. Nicorandil
- b. Hydralazine

- c. Glibenclamide
- d. Amiloride

16) The mechanism of action of barbiturates differs from that of benzodiazepines in that they

- a. Do not affect the GABA-benzodiazepine receptor-chloride channel complex
- b. Act as inverse agonists at the benzodiazepine receptor
- c. Increase the frequency of chloride channel opening without affecting its life time
- d. Have both GABA-facilitatory as well as GABA-mimetic actions

17) Which of the following is a specific inhibitor of the enzyme alcohol dehydrogenase and is useful in the treatment of methanol poisoning

- a. Disulfiram
- b. Ethylene glycol
- c. Calcium leucovorin
- d. Fomepizole

18) Which of the following is a non-sedative anxiolytic

- a. Chlorpromazine
- b. Buspirone
- c. Hydroxyzine
- d. Alprazolam

19) In a comatose patient suspected of poisoning, which of the following findings would be against the drug being morphine

- a. Mydriasis

- b. Marked respiratory depression
- c. Cyanosis
- d. Fall in blood pressure

20) The antipsychotic drug most likely to cause ocular toxicity on long-term use is

- a. Thioridazine
- b. Haloperidol
- c. Flupenthixol
- d. Pimozide

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