

[MBBS 0725]

JULY 2025

Sub. Code :6061

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019 - 2020)

SECOND PROFESSIONAL – (CBME)
PAPER I – PHARMACOLOGY

*Q.P. Code: 526061***Time: 20 Minutes****Maximum : 20 Marks****Answer All Questions****Shade the correct answer with Black or Blue ink ball point pen****SET - A****III. Multiple Choice Questions:****(20 x 1 = 20)**

1. High plasma protein binding:
 - A) Increases volume of distribution of the drug
 - B) Facilitates glomerular filtration of the drug
 - C) Minimises drug interactions
 - D) Decreases volume of distribution of the drug
2. Microsomal enzyme induction can be a cause of:
 - A) Tolerance
 - B) Physical dependence
 - C) Psychological dependence
 - D) Placebo effect
3. The plasma half-life of penicillin-G is longer in the new born because their:
 - A) Plasma protein level is low
 - B) Drug metabolizing enzymes are immature
 - C) Glomerular filtration rate is low
 - D) Tubular transport mechanisms are not well developed
4. Receptors perform the following function/functions:
 - A) Ligand recognition
 - B) Signal transduction
 - C) Both ligand recognition and signal transduction
 - D) Disposal of agonists and antagonists
5. Which of the following is a relatively cerebro selective anticholinesterase found to afford symptomatic improvement in Alzheimer's disease:
 - A) Donepezil
 - B) Gemfibrozil
 - C) Pyridostigmine
 - D) Pyritinol
6. Hyoscine differs from atropine in that it:
 - A) Exerts depressant effects on the CNS at relatively low doses
 - B) Exerts more potent effects on the heart than on the eye
 - C) Is longer acting
 - D) Has weaker anti motion sickness activity
7. Choose the drug which is used as a short-term inotropic in severe congestive heart failure and has selective adrenergic β_1 agonistic activity but no dopaminergic agonistic activity:
 - A) Dopamine
 - B) Dobutamine
 - C) Amrinone
 - D) Salmeterol
8. Select the ergot compound which is primarily used for dementia:
 - A) Bromocriptine
 - B) Ergotamine
 - C) Codergocrine
 - D) Methysergide

9. Sulfasalazine is used in the following disease(s):
 - A) Bacillary dysentery
 - B) Ulcerative colitis
 - C) Rheumatoid arthritis
 - D) Both 'B' and 'C' are correct
10. Reflex bronchoconstriction is most likely to occur with the following form of inhaled anti-asthma medication:
 - A) Metered dose spray of drug in solution
 - B) Dry powder rota cap
 - C) Nebuliser
 - D) Nebuliser with spacer
11. Select the anaesthetic that increases the blood pressure:
 - A) Halothane
 - B) Fentanyl
 - C) Ketamine
 - D) Diazepam
12. Select the anti-convulsant drug that acts as a GABA transaminase inhibitor:
 - A) Gabapentin
 - B) Vigabatrin
 - C) Lamotrigine
 - D) Clobazam
13. The major limitation in the use of clozapine for treatment of schizophrenia is:
 - A) Its potential to cause agranulocytosis
 - B) Its inability to benefit negative symptoms of schizophrenia
 - C) High incidence of extrapyramidal side effects
 - D) Production of hyperprolactinemia
14. Choose the correct statement about the use of propranolol in anxiety:
 - A) Being non-sedative, it is the drug of choice in chronic anxiety states
 - B) It suppresses the psychological component of anxiety
 - C) It suppresses the autonomic manifestations of acutely stressful situations
 - D) Both 'B' and 'C' are correct
15. Strychnine produces convulsions by:
 - A) Stimulating NMDA receptors
 - B) Facilitating the excitatory transmitter glutamate
 - C) Blocking the inhibitory transmitter GABA
 - D) Blocking the inhibitory transmitter glycine
16. Beneficial effect / effects of diuretics in CHF patients include the following:
 - A) Symptomatic relief
 - B) Regression of pathological changes
 - C) Prolongation of life expectancy
 - D) Both 'A' and 'C'
17. Organic nitrates have predominantly venodilator action because:
 - A) They are selectively concentrated in veins
 - B) Veins express larger quantities of enzymes that generate nitric oxide from nitrates
 - C) Venous smooth muscle has greater capacity to relax
 - D) All of the above are correct
18. Coronary steal phenomenon has been noted most frequently with:
 - A) Glyceryl trinitrate
 - B) Dipyridamole
 - C) Propranolol
 - D) Diltiazem
19. Recombinant human erythropoietin is indicated for:
 - A) Megaloblastic anaemia
 - B) Haemolytic anaemia
 - C) Patients of thalassemia
 - D) Anaemia in chronic renal failure patients
20. Which of the following hypolipidemic drugs is most effective in raising HDL-cholesterol level?
 - A) Nicotinic acid
 - B) Fenofibrate
 - C) Cholestyramine
 - D) Pravastatin
