

**Q.P. CODE : M102A031****Dr. NTR UNIVERSITY OF HEALTH SCIENCES: AP : VIJAYAWADA-520008****MBBS DEGREE EXAMINATION - OCTOBER, 2024****FIRST M.B.B.S. EXAMINATION****BIOCHEMISTRY - PAPER-II (SET-B)****(Multiple Choice Questions)****Time: 20 Minutes****Max Marks: 20****Note: Answer all questions.**

---

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

1. Plasma proteins which contain more than 4% hexosamine are

- a) Microglobulins
- b) Glycoproteins
- c) Orosomucoids
- d) Mucoproteins

2. Which of the following is a tripeptide?

- a) Anserine
- b) Oxytocin
- c) Glutathione
- d) Kallidin

3. The following points about microfilaments are true except

- a) They form cytoskeleton with microtubules
- b) They form intracellular conducting channels
- c) They provide support and shape

d) They are involved in muscle cell contraction

4. Mitochondrial DNA is

- a) Circular double stranded
- b) Circular single stranded
- c) Linear double helix
- d) None of these

5. An amino acid that does not take part in a helix formation is

- a) Histidine
- b) Tyrosine
- c) Tryptophan
- d) Proline

6. In urea synthesis, the amino acid functions solely as an enzyme activator

- a) Ornithine
- b) Citrulline
- c) N-acetyl glutamate
- d) Arginine

7. The amino acid which detoxicated benzoic acid to form hippuric acid is

- a) Alanine
- b) Glycine
- c) Serine
- d) Glutamic acid

8. The apolipoprotein which forms the integral component of chylomicron is

- a) B-48
- b) C
- c) D
- d) B-100

9. Plasma proteins act as

- a) Buffers
- b) Immunoglobulins
- c) Reserve proteins
- d) All of these

10.  $\text{NH}_3$  is removed from brain mainly by

- a) Creatinine formation
- b) Uric acid production
- c) Glutamine formation
- d) Urea formation

11. Insulin is made up of

- a) A single polypeptide chain having 51 amino acid residues
- b) A single polypeptide chain having 84 amino acid residues
- c) A-chain having 21 and B-chain having 30 amino acid residues
- d) A-chain having 30 and B-chain having 21 amino acid residues. 1

12. Maple syrup urine diseases is an inborn error of metabolism of

- a) Branched chain amino acids

- b) Dicarboxylic amino acids
- c) Aromatic amino acids
- d) Sulphur-containing amino acids

12. The Immunoglobulin which provides the highest antiviral activity is

- a) Ig G
- b) Ig E
- c) Ig D
- d) Ig A

14. All are Amino acid-derived hormones except:

- a) Thiamine
- b) Epinephrine
- c) Testosterone
- d) Nor-epinephrine

15. Niacin can be synthesized in human beings from

- a) Histidine
- b) Tryptophan
- c) Phenylalanine
- d) Tyrosine

16. In mammalian cells, ribosomal RNA is produced mainly in the

- a) Nucleolus
- b) Nucleus
- c) Ribosome

d) Golgi apparatus

17. A characteristic pheochromocytoma is elevated urinary excretion of

- a) Dopamine
- b) Tyrosine
- c) Phenylalanine
- d) Vanillylmandelic acid

18. Zinc is a constituent of the enzyme

- a) Succinate dehydrogenase
- b) Mitochondrial superoxide dismutase
- c) Carbonic anhydrase
- d) Aldolase

19. Which of the following statements about Menke's disease are true

- a) It is an inherited disorder of copper metabolism
- b) Plasma copper is increased in it
- c) It occurs only in males
- d) Hair becomes steely and kinky in it

20. Meningitis and encephalitis cause

- a) Respiratory alkalosis
- b) Metabolic alkalosis
- c) Metabolic acidosis
- d) Respiratory acidosis

\*\*\*\*\*