

CBME**DR. YSR UNIVERSITY OF HEALTH SCIENCES:AP:VIJAYAWADA-520 008****MBBS DEGREE EXAMINATION – JANUARY, 2023****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)**1x20=20**

- 1) In pheochromocytoma, there is excess synthesis of
 - a. Vanillyl mandelic acid
 - b. Polyamines
 - c. Hippuric acid
 - d. Indole acetic acid
 - 2) Acetylcholine can be synthesized from which amino acid:
 - a. Tyrosine
 - b. Serine
 - c. Threonine
 - d. Tryptophan
 - 3) Ammonia is trapped in the brain by:
 - a. Glutamine synthase reaction
 - b. Carbamoyl phosphate synthase 1
 - c. Citrate synthase
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d. Glutamate dehydrogenase

4) Tertiary structure of protein describes:

- a. The sequence of amino acids
- b. The location of disulfide bonds
- c. Amino terminal end amino acid
- d. The nature of protein folding

5) Formation of dTMP requires

- a. Coenzyme A
- b. NADPH
- c. Vitamin C
- d. Molybdenum

6) Secondary hyperuricemia is present in all the following conditions

- a. Polycythemia
- b. Cytotoxic drug therapy
- c. Leukemia
- d. Hepatitis

7) Which of the below mentioned enzyme does not contain copper:

- a. Cytochrome oxidase
- b. Superoxide dismutase
- c. Xanthine oxidase
- d. Tyrosinase

8) Zinc is constituent of all the following enzymes except:

- a. Alkaline phosphatase
- b. Amylase
- c. Carbonic anhydrase

9) Which of the enzyme listed below is heat stable?

- a. Restriction endonuclease
- b. Thermo thermophilus
- c. Reverse transcriptase
- d. Enterokinase

10) The following are the vectors for gene therapy except:

- a. Retrovirus
- b. E. Coli
- c. Adenovirus
- d. Liposome

11) Unusual nucleotide bases are found in significant quantity in:

- a. Messenger RNA
- b. Ribosomal RNA
- c. Transfer RNA
- d. snRNA

12) Denaturation of DNA is accompanied by all the following changes except:

- a. Hyperchromicity
- b. Increase in viscosity

- c. Unstacking of base
- d. Double helix structure

13) Administration of diuretics causes loss of potassium ions which can lead to:

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

14) Hydroxylation occurs in which of the following amino acids in collagen:

- a. Threonine
- b. Alanine
- c. Lysine
- d. Tryptophan

15) Which of the following is due to tumor suppressor mutation?

- a. Retinoblastoma
- b. Hyperthyroidism
- c. Cystic Fibrosis
- d. Sickle cell disease

16) The uptake of iodine by thyroid gland is inhibited by:

- a. Fluoride
- b. Perchlorate
- c. Bromide
- d. Chloride

17) The following is not an acute phase protein:

- a. CRP
- b. Ceruloplasmin
- c. HDL
- d. Haptoglobin

18) Sodium potassium pump is inhibited by:

- a. Aspirin
- b. Digoxin
- c. Methotrexate
- d. Rifampicin

19) Oncogenes are specific sequences in DNA:

- a. That are tumor markers
- b. When expressed produce cancer
- c. That code for reverse transcriptase
- d. Required for DNA replication

20) Patients treated with carbonic anhydrase inhibitor can develop:

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