

CBME**DR. YSR UNIVERSITY OF HEALTH SCIENCES:AP:VIJAYAWADA-520 008****MBBS DEGREE EXAMINATION – APRIL, 2023****FIRST M.B.B.S. EXAMINATION****BIOCHEMISTRY – PAPER-II (Set C)****(Multiple Choice Questions)****Time: 20 Minutes****Max Marks: 20****Note: Answer all questions**

SECTION – I (MCQs- 20 MARKS)**1x20=20**

1) The amino acid found in protein structure

- a. Arginine
- b. Proline
- c. Histidine
- d. Lysine

2) Non protein amino acid is

- a. Ornithine
- b. Homocysteine
- c. Histamine
- d. All of them

3) The following nitrogenous base not present in DNA structure

- a. Adenine
- b. Guanine

c. Cytosine

d. Uracil

4) The bonds in protein structure that are not broken on denaturation

a. Hydrogen bonds

b. Peptide bonds

c. Ionic bonds

d. Disulfide bonds

5) Which is a sulfur containing essential amino acid

a. Methionine

b. Cysteine

c. Cystine

d. All of them

6) The following coenzyme is a nucleotide

a. FAD

b. NAD⁺

c. CoASH

d. All of them

7) Iron in the mucosal cells binds with the protein

a. Transferrin

b. Ferritin

c. Ceruloplasmin

d. Hemosiderin

8) Hemophilia A is due to the deficiency of clotting factor

- a. X
- b. V
- c. VIII
- d. II

9) The only route through which H^+ ions are eliminated from the body

- a. Lungs
- b. Stomach
- c. Kidneys
- d. None of them

10) Element that prevents the development of dental caries

- a. Fluorine
- b. Calcium
- c. Phosphorus
- d. Sodium

11) The anion with highest concentration in the extracellular fluids is

- a. Cl^-
- b. HCO_3^-
- c. HPO_4^-
- d. Protein

12) Fight, fright and flight hormone is

- a. Thyroxine
- b. Aldosterone
- c. Epinephrine
- d. ADH

13) Mitochondrial DNA is inherited from

- a. Mother only
- b. Father only
- c. Both of them
- d. Either mother or father

14) The anion gap refers to the unmeasured plasma anion concentration (in the laboratory) and is represented by

- a. Proteins and organic acids
- b. Phosphate and sulfate
- c. Urate
- d. All of them

15) Methylation of DNA results in

- a. Recruiting proteins involved in gene repression
- b. Inactivation of genes
- c. No effect on genes
- d. Inactivation of protein motifs

16) Enzyme that removes RNA primer during DNA replication is

- a. Primase
- b. DNA polymerase I

- c. DNA polymerase II
- d. Ligase

17) As per WHO criteria, a person is said to be diabetic in oral glucose tolerance test (GTT)

- a. Fasting blood glucose exceeds 126 mg/dl, and 2 hours after OGTT goes beyond 200 mg/dl
- b. Fasting blood glucose exceeds 86 mg/dl, and 2 hours after OGTT goes beyond 100 mg/dl
- c. Fasting blood glucose exceeds 76 mg/dl, and 2 hours after OGTT goes beyond 92 mg/dl
- d. None of the above

18) Carcinoembryonic antigen produced by the embryonic tissue of

- a. Liver
- b. Gut
- c. Pancreas
- d. All of the above

19) Tetany is associated with the following condition

- a. Hypocalcemia
- b. Hypercalcemia
- c. Hyperparathyroidism
- d. Renal rickets

20) HbA1c reflects the mean blood glucose level over ____ months period prior to its measurement

- a. 2

- b. 3
- c. 4
- d. 6

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