

CBME**Dr YSR UNIVERSITY OF HEALTH SCIENCES: VIJAYAWADA- 520008****MBBS DEGREE EXAMINATION - DECEMBER, 2023****FIRST M.B.B.S. EXAMINATION****BIOCHEMISTRY- PAPER-I (SET-B)****(Multiple Choice Questions)****Time: 20 Minutes****Max Marks: 20****Note: Answer all questions.**

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

1. The following amino acid can enter the citric acid cycle as oxaloacetate:

- a. Lysine
- b. Proline
- c. Aspartate (Correct answer marked)
- d. Serine

2. Oxidative phosphorylation and electron transport chain are inhibited by the following compounds, except:

- a. Carbon monoxide
- b. Hydrogen cyanide
- c. Oligomycin
- d. Pyrophosphate

3. The coenzyme:

- a. Increases the affinity of apoenzyme to substrate

- b. Lowers the activation energy
- c. Accepts one of the products of the reaction
- d. Increases the number of active sites of the enzyme

4. Enzymes bind to substrate:

- a. By covalent bonds
- b. By glycosidic bond
- c. At catalytic site only
- d. Peptide bond

5. A vitamin not available from plant source:

- a. Vitamin B1
- b. Vitamin B12
- c. Vitamin B2
- d. Vitamin K

6. Mac Ardle's syndrome is due to deficiency of:

- a. Pyruvate kinase
- b. Glycogen synthase
- c. Muscle glycogen phosphorylase
- d. Debranching enzyme

7. Which of the following enzyme is inhibited in starvation?

- a. Alanine transferase
- b. Glucokinase
- c. Pyruvate carboxylase

d. Carbonic anhydrase

8. Which of the following enzyme catalyzes substrate-level phosphorylation?

- a. Hexokinase
- b. Phosphofructokinase
- c. Glycogen phosphorylase
- d. Pyruvate kinase

9. The serum lipoprotein with the highest cholesterol content is:

- a. High-density lipoprotein
- b. Low-density lipoprotein
- c. Very low-density lipoprotein
- d. Chylomicron

10. Which of the following is not included in calculating the calorie requirement of an individual?

- a. BMR
- b. RQ
- c. SDA
- d. Nature of work

11. Lysine is deficient in:

- a. Cereals (rice and wheat)
- b. Maize and corn
- c. Pulses (Bengal gram dal)
- d. Tapioca (Cassava)

12. The structure of vitamin A contains:

- a. Naphthoquinone ring
- b. Chromane ring
- c. Beta-ionone ring
- d. Thiazole ring

13. The following enzyme of heme biosynthesis is inhibited by lead:

- a. ALA dehydratase
- b. UBG I Synthase
- c. ALA synthase
- d. Coproporphyrinogen oxidase

14. Which of the following processes makes use of free radicals?

- a. Cell adhesion
- b. Phagocytosis
- c. Contact inhibition
- d. Pinocytosis

15. Hypercholesterolemia is seen in the following conditions except:

- a. Diabetes mellitus
- b. Hyperthyroidism
- c. Nephrotic syndrome
- d. Obstructive jaundice

16. The chain elongation of fatty acid takes place in:

- a. Mitochondria

- b. Microsomes
- c. Golgi complex.
- d. Peroxisome

17. The following are the features of starvation except:

- a. Ketoacidosis
- b. Glycogenolysis
- c. Increase in BMR
- d. Gluconeogenesis

18. Specific gravity of urine is increased in:

- a. Chronic glomerulonephritis
- b. Diabetes mellitus
- c. Liver disease
- d. Intake of vegetables

19. Beta oxidation of fatty acid forms all the following except:

- a. NADH
- b. Acetyl CoA
- c. Malonyl CoA
- d. FADH₂

20. Congenital erythropoietic porphyria is caused due to deficiency of:

- a. Coproporphyrinogen oxidase
- b. Uroporphyrinogen III cosynthase
- c. PBG deaminase

d. Protoporphyrinogen oxidase

firstranker.com
www.FirstRanker.com