

**CBME****Dr YSR UNIVERSITY OF HEALTH SCIENCES: VIJAYAWADA- 520008****MBBS DEGREE EXAMINATION - JANUARY, 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.**

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

1. Which of the following coenzyme is required for HMP pathway?

- a) Pyridoxal phosphate
- b) Biotin
- c) Thiamine pyrophosphate
- d) Flavin adenine dinucleotide

2. Which of the following is not a high energy compound?

- a) Creatine phosphate
- b) Glucose 6 phosphate
- c) Phosphoenol pyruvate
- d) 1,3 bisphosphoglycerate

3. Long term regulation of enzyme action is affected by:

- a) Altering the activity of enzyme protein
- b) Induction and repression of enzyme protein synthesis
- c) Premature breakdown of enzyme protein
- d) Partial denaturation of enzyme protein

4. A constitutive enzyme is:

- a) Activated by an inducer
- b) Inhibited by a repressor
- c) Always present in the cell in the same concentration
- d) A constituent of the cell membrane

5. Insulin favors:

- a) Gluconeogenesis
- b) Cholesterol Synthesis
- c) Lipogenesis
- d) Ketogenesis

6. Deficiency of Folic acid leads to:

- a) Pellagra
- b) Night Blindness
- c) Macrocytic Anemia
- d) Microcytic Anemia

7. Which of the following enzyme generated NADPH?

- a. Pyruvate carboxylase
- b. Pyruvate dehydrogenase
- c. Glucose 6 phosphate dehydrogenase
- d. Lactate dehydrogenase

8. Which of the following cannot be converted back to glucose?

- a. Acetyl CoA
- b. Lactate
- c. Alanine
- d. Propionyl CoA

9. The main apoprotein present in HDL is:

- a. Apo A1
- b. B-100
- c. B-48
- d. Apo E

10. Which of the below mentioned compound has highest calorific value:

- a. Glucose
- b. Amino Acid
- c. Palmitic acid
- d. Ethanol

11. Negative nitrogen balance is observed in:

- a. Pregnancy
- b. Growth period
- c. Chronic fever
- d. Convalescence

12. Large dose of Vitamin K in neonate can cause:

- a. Cyanosis
- b. Jaundice
- c. Skin Disorder
- d. Porphyrria

13. Heme is converted to bilirubin in:

- a. Mitochondria
- b. Microsomes
- c. Golgi Bodies
- d. Plasma Membrane

14. The organelle concerned with free radical scavenging is:

- a. Lysosome
- b. Golgi Bodies
- c. Nucleolus
- d. Peroxisomes

15. Refsum's disease is due to accumulation of:

- a) Sphingomyelin
- b) Glucocerebroside
- c) Phytanic Acid
- d) Ganglioside

16. The tissue that cannot use fatty acids as fuel is:

- a) Liver
- b) Brain
- c) Skeletal Muscle
- d) Cardiac muscle

17. Which of the following is Phase 3 reaction of Detoxification:

- a) Epoxidation
- b) Glucuronidation
- c) Deconjugation
- d) Dealkylation

18. The pathway which takes place in mitochondria is:

- a) Glycolysis
- b) HMP pathway
- c) Ketogenesis
- d) Cholesterol synthesis

19. Steroid hormone is produced from:

- a) Purine

b) Pyrimidine

c) Cholesterol

d) Stercobilinogen

20. Renal plasma flow is measured by:

a) Creatinine Clearance

b) Specific gravity of urine

c) Para amino Hippurate clearance

d) Urine output

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