

**M.B.B.S. DEGREE EXAMINATION
FIRST YEAR
PAPER I – BIOCHEMISTRY**

MULTIPLE CHOICE QUESTIONS

Q.P. Code: 526055

Time: 30 Minutes

Maximum : 20 Marks

Answer All Questions

Write one correct answer in the box provided in the Answer Script. No overwriting should be done.

III. Multiple Choice Questions:

(20 x 1 = 20)

1. The marker enzyme of lysosome is
 - A) Lactate dehydrogenase.
 - B) Cathepsin.
 - C) Galactosyl transferase.
 - D) Glucose - 6 - phosphatase.

2. One of the following is a lysosomal disorder
 - A) Inclusion cell disease.
 - B) Cystic Fibrosis.
 - C) Alport's syndrome.
 - D) Prions disease.

3. What is the biochemical basis for using sodium fluoride while collecting sample for glucose estimation?
 - A) For inhibiting glycolysis.
 - B) For better separation of serum.
 - C) For better separation of plasma.
 - D) For better estimation of cholesterol.

4. A three-month-old child exclusively on breast feeds presented with incessant crying, poor weight gain. Clinical examination revealed enlarged liver, cataract and positive benedict's test of the urine. The most likely condition is
 - A) Von Gierke's Disease.
 - B) McArdle's Disease.
 - C) Galactosemia.
 - D) Lactose intolerance.

5. Which of the following is derived lipid?
 - A) Triacyl glycerol.
 - B) Plasmalogen.
 - C) Prostaglandin.
 - D) Ganglioside.

6. The major apolipoprotein seen in chylomicron is
- A) Apo B₄₈.
 - B) Apo B₁₀₀
 - C) Apo AI
 - D) Apo AII
7. One of the following enzyme is not a protein
- A) Lactase
 - B) Hydrolase
 - C) Ribozyme
 - D) Ligase
8. To which class of enzymes is aldolase classified
- A) Oxidoreductase.
 - B) Isomerase.
 - C) Lyase
 - D) Ligase
9. Which Vitamin is excreted as oxalic acid?
- A) Retinoic Acid
 - B) Ascorbic Acid
 - C) Folic Acid
 - D) Pantothenic Acid
10. The Vitamin required for the synthesis of catecholamines is
- A) Vitamin K
 - B) Vitamin B₁₂
 - C) Vitamin C
 - D) Vitamin B6
11. Which of the following is an uncoupler of oxidative phosphorylation?
- A) Carbon Monoxide.
 - B) Cyanide.
 - C) Oligomycin.
 - D) 2,4 Dinitrophenol.
12. Physiological uncoupler of oxidative phosphorylation is one of the following
- A) Thyroxine
 - B) Tyrosin
 - C) Vascomycin
 - D) Carboxin
13. Citric acid cycle is otherwise called as Amphibolic cycle because it has both
- A) Anabolic and catabolic
 - B) Mitochondrial and cytoplasmic
 - C) Reversible and irreversible
 - D) Protein and lipid substrates

14. Total number of ATP's generated in one cycle of citric acid cycle is
- A) 8
 - B) 10
 - C) 16
 - D) 14
15. Which of the following causes negative nitrogen balance?
- A) Growth hormone
 - B) Insulin
 - C) Corticosteroid
 - D) Androgen
16. Factors affecting basal metabolic rate are all of the following EXCEPT
- A) Temperature
 - B) Exercise
 - C) Fever
 - D) Glucagon
17. Which of the following amino acid is required for synthesis of heme?
- A) Lysine
 - B) Cysteine
 - C) Phenylalanine
 - D) Glycine
18. Sick cell anemia is characterized by the following EXCEPT
- A) Homozygous Recessive Inheritance
 - B) Chronic hemolytic anemia, episodes of pain hyperbilirubinemia.
 - C) Polymerization of deoxyhemoglobin and under hypoxia.
 - D) Valine in position six of beta chain replaced by glutamate.
19. Factors affecting the fluidity of the cell membrane are all of the following EXCEPT
- A) Trans fatty acids
 - B) Cholesterol
 - C) Tight junction
 - D) Transition temperature
20. Impaired functions of aquaporins leads to
- A) Diabetes Mellitus
 - B) Cirrhosis
 - C) Nephrogenic Diabetes Insipidus
 - D) Hartnup's Disease
