

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020)
FIRST YEAR
PAPER I – BIOCHEMISTRY
MULTIPLE CHOICE QUESTIONS

Q.P. Code: 526055

Time: 30 Minutes

Maximum : 20 Marks

Answer All Questions

Choose 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. Which of the following is a lipotropic factor?
 - A. Sphingomyelin.
 - B. Choline.
 - C. Cardiolipin.
 - Orotic aci
2. Co enzyme A is derived from which of the following Vitamin ?
 - A. Niacin.
 - B. Biotin.
 - C. Pantothenic aci
 - Cobalamin.
3. Pernicious anemia may result due to the dietary deficiency of which of the following vitamin ?
 - A. Folic aci
 - B. Pyridoxine.
 - C. Pantothenic aci
 - Cobalamin.
4. In premature newborns, the deficiency of which lipid is associated with respiratory distress syndrome
 - A. Phosphatidyl choline.
 - B. Phosphatidyl ethanolamine.
 - C. Phosphatidyl inositol.
 - Phosphatidyl glycerol.
5. Aspirin inhibits the activity of the enzyme
 - A. Lipoxygenase
 - B. Cyclooxygenase
 - C. Phospholipase A1
 - Phospholipase A2

- A. Lysine
 - B. Threonine
 - C. Methionine
 - Tryptophan
7. Niemann-pick disease is due to defect in the which enzyme ?
- A. Beta-glucosidase
 - B. Sphingomyelinase
 - C. Beta-galactosidase
 - Hexosaminidase A
8. Normal plasma cholesterol level is
- A. 40 – 60 mg/100 ml.
 - B. 70 – 110 mg/100 ml.
 - C. 120 – 150 mg/100 ml.
 - 150 – 200 mg/100 ml.
9. The following vitamins has antioxidant property except
- A. Vitamin C.
 - B. Vitamin E.
 - C. Vitamin A.
 - Vitamin K.
10. All of the following are substrates for gluconeogenesis except
- A. Alanine.
 - B. Leucine.
 - C. Glycerol.
 - Methionie.
11. In TCA cycle, substrate level phosphorylation takes place in
- A. Alpha ketoglutarate to succinyl CoA.
 - B. Succinyl CoA to succinate.
 - C. Succinate to fumarate.
 - Oxaloacetate to citrate.
12. Renal threshold for glucose is
- A. 80 mg %
 - B. 120 mg %
 - C. 180 mg %
 - 200 mg %
13. The product of oxidation of odd chain fatty acids is
- A. Aceto Acetyl CoA
 - B. Malonyl CoA
 - C. Propionyl CoA
 - Fumaryl CoA

14. Rate limiting step in Cholesterol synthesis is
- A. HMG CoA synthase.
 - B. HMG CoA lyase.
 - C. HMG CoA reductase.
 - Squalene synthase.
15. NADPH is required for
- A. Gluconeogenesis.
 - B. HMP Shunt.
 - C. Glycolysis.
 - Fatty acid Synthesis.
16. Glycogen synthesis is increased by
- A. Cortisone.
 - B. Insulin.
 - C. Glucagon.
 - Epinephrine.
17. An example of competitive inhibition of an enzyme is
- A. Succinate dehydrogenase by malonate.
 - B. Cytochrome oxidase by cyanide.
 - C. Hexokinase by glucose-6-phosphate.
 - Phosphofructokinase by citrate.
18. In a cell, digestive enzymes mostly occurs in
- A. Mitochondria.
 - B. Lysosomes.
 - C. Ribosome.
 - Golgi apparatus.
19. Net yield of ATP from one molecule of palmitic acid is
- A. 8 ATP
 - B. 32 ATP
 - C. 38 ATP
 - 106 ATP
20. Which factor decreases the affinity of hemoglobin for oxygen binding ?
- A. An increase in 2,3 BPG level in blood
 - B. A rise in pH
 - C. Oxidation of iron to ferric state in one subunit
 - Vomiting
