

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
B.Sc(Medical Lab Technology) DEGREE EXAMINATIONS - August 2019

Second Year
BIOCHEMISTRY - II

Three Hours

Maximum: 75 marks

SECTION - A

I. Choose the Best Answer :

(10 x 1 = 10)

1. One of the following is an amphipathic lipid
(a) Phospholipids (b) Fatty acid (c) Bile salts (d) All of the above.
2. The metabolite excreted in urine in thiamine deficiency
(a) Pyruvate (b) Glucose (c) Xanthurenic acid (d) FIGLU.
3. Iron in the mucosal cells binds with the protein
(a) Transferrin (b) Ferritin (c) Ceruloplasmin (d) Hemosiderin.
4. One of the following minerals is lacking in milk
(a) Calcium (b) Sodium (c) Iron (d) Potassium.
5. The number of polypeptide chains present in collagen
(a) 1 (b) 2 (c) 3 (d) 4.
6. The following coenzyme is a nucleotide
(a) FAD (b) NAD⁺ (c) CoASH (d) All of them.
7. One of the following is not an aldose
a. Glucose (b) Galactose (c) Mannose (d) Fructose.
8. Hemophilia A is due to the deficiency of clotting factor
(a) X (b) V (c) VIII (d) II.
9. The specific dynamic action (SDA) is the greatest for the following foodstuff
(a) Protein (b) Carbohydrate (c) Fat (d) Vitamins.
10. A continuous supply of energy to the body is necessary to meet the requirements of
(a) Basal metabolic rate (b) Specific dynamic action

II. Write Short Answers on any FIVE of the following:

(5 x 5 = 25)

11. Mechanism of blood coagulation
12. Explain what is GLP?
13. Fiber in nutrition
14. Amniotic fluid

(p.t.o)

15. Write a short notes hormonal influence
16. Kidney disorder
17. UDPG

III. Write Short Essays on any TWO of the following:

(2 x 10 = 20)

18. Give an account of electrophoresis of plasma protein,
19. Write an essay on the iron metabolism in the body.
20. Describe the triacylglycerols biosynthesis
21. Describe the digestion and absorption of carbohydrates

IV. Write Essays on any ONE of the following:

(1 x 20 = 20)

22. Explain the preservatives of the Blood.
23. Give an account of cholesterol biosynthesis. Add a note on the significance of plasma cholesterol estimation.

(S.No.M21736)

