

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
B.Sc(ALLIED HEALTH SCIENCES) DEGREE EXAMINATIONS - September 2021
Second Year
BIOCHEMISTRY - II

Three Hours

Maximum: 75 marks

SECTION - A

I. Choose the Best Answer :**(10 x 1 = 10)**

1. The following polysaccharide is composed of α -glycosidic bonds
a. Starch (b) Glycogen (c) Dextrin (d) Cellulose.
2. The nitrogenous base present in lecithin
(a) Choline (b) Ethanolamine (c) Inositol (d) Serine.
3. Name the test employed to check the purity of butter through the estimation of volatile fatty acids
(a) Iodine number (b) Reichert-Meissl number
(c) Saponification number (d) Acid number.
4. The nucleotide that serves as an intermediate for biosynthetic reaction
(a) UDP-glucose (b) CDP-acylglycerol
(c) S-Adenosylmethionine (d) All of them.
5. The coenzyme directly concerned with the synthesis of biogenic amines
(a) TPP (b) NADP⁺ (c) Biotin (d) Pyridoxal phosphate.
6. Name the immunoglobulin involved in body allergic reactions
(a) IgA (b) IgE (c) IgD (d) IgM.
7. Iron in the mucosal cells binds with the protein
(a) Transferrin (b) Ferritin (c) Ceruloplasmin (d) Hemosiderin.
8. Pick up element that prevents the development of dental caries
(a) Fluorine (b) Calcium (c) Phosphorus (d) Sodium.
9. One of the following minerals is lacking in milk
(a) Calcium (b) Sodium (c) Iron (d) Potassium.
10. The reference protein for the calculation of chemical score
(a) Meat protein (b) Fish protein (c) Milk protein (d) Egg protein.

II. Write Short Answers on any FIVE of the following:**(5 x 5 = 25)**

11. Normal composition of urine- volume, specific gravity.
12. UDPG
13. Ketone bodies
14. Hypercholesterolemia
15. Wilson's disease
16. Kwashiorkor
17. Explain what is GLP.

(p.t.o.)

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

(2 x 10 = 20)

18. RBC, WBC and platelets- structure and function
19. Describe briefly the diabetes mellitus.
20. Give an account of electrophoresis of plasma protein.
21. Discuss the protein-energy malnutrition with special reference to kwashiorkor.

IV. Write Essays on any ONE of the following:

(1 x 20 = 20)

22. Give an account of glycogen metabolism.
23. Describe the characteristics and major functions of plasma proteins.

(S.No.M21251)

