

CBME**Dr YSR UNIVERSITY OF HEALTH SCIENCES: VIJAYAWADA- 520008****MBBS DEGREE EXAMINATION - APRIL, 2023****FIRST M.B.B.S. EXAMINATION****BIOCHEMISTRY- PAPER-I (SET-C)****(Multiple Choice Questions)****Time: 20 Minutes****Max Marks: 20****Note: Answer all questions.**

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

1. The number of carbon atoms involved in the osazone formation:

- a) 1 and 2
- b) 2 and 3
- c) 3 and 4
- d) 5 and 6

2. Polysaccharide which is composed by β -glycosidic bonds:

- a) Starch
- b) Glycogen
- c) Dextrin
- d) Cellulose

3. One of the following is an amphipathic lipid:

- a) Phospholipids
- b) Fatty acid
- c) Bile salts
- d) All of the above

4. The glycosaminoglycan that serves as an anticoagulant:
- a) Heparin
 - b) Hyaluronic acid
 - c) Chondroitin sulfate
 - d) Dermatan sulfate
5. The coenzyme not involved in hydrogen transfer:
- a) FMN
 - b) FAD
 - c) NADP⁺
 - d) FH₄
6. Esterification of cholesterol occurs at carbon position:
- a) 1
 - b) 2
 - c) 3
 - d) 4
7. In the feedback regulations, the end product binds at
- a. Active site
 - b. Allosteric site
 - c. E-S complex
 - d. None of the above
8. Test employed to check the purity of butter through the estimation of volatile fatty acids is
- a. Iodine number
 - b. Reichert Meisel number
 - c. Saponification number
 - d. Acid number

9. The coenzyme directly concerned with the synthesis of biogenic amines
- TPP
 - NADP⁺
 - Biotin
 - Pyridoxal phosphate
10. Formimino glutamic acid is excreted in urine in the deficiency of Vitamin
- Riboflavin
 - Folic acid
 - Biotin
 - Vit C
11. The enzyme that converts trypsinogen to trypsin is
- Secretin
 - Chymotrypsin
 - Elastase
 - Enteropeptidase
12. Active form of Vitamin D is
- Cholecalciferol
 - Ergocalciferol
 - Dehydrocholesterol
 - Calcitriol
13. Inner mitochondrial membrane is impermeable to
- H⁺
 - K⁺
 - OH⁻
 - All of them
14. The number of heme groups present in myoglobin

a. 1

b. 2

c. 3

d. 4

15. Vandenberg reaction in hemolytic jaundice is

a. Indirect positive

b. Direct positive

c. Biphasic

d. None of these

16. The substance that facilitates the release of O_2 from oxyhemoglobin

a. 2,3, BPG

b. H^+

c. Cl^-

d. All of them

17. In a normal adult man, the amount of triacylglycerol stored is

a. 40 kg

b. 35 kg

c. 25 kg

d. 15 kg

18. Foodstuff with the highest specific dynamic action is

a. Protein

b. Carbohydrate

c. Fat

d. Vitamins

19. The final common pathway for oxidation of major foodstuff is

a. Glycolysis

b. Kreb's cycle

c. HMP shunt

d. β -oxidation

20. One of the following is the most important essential fatty acid in the diet

a. Linoleic acid

b. Arachidonic acid

c. Oleic acid

d. Palmitic acid

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