

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0522]

MAY 2022

Sub.Code : 6055

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2019-2020)

FIRST YEAR – SUPPLEMENTARY (CBME)

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 tissues can not utilise ketone bodies?
 - A. Renal Cortex.
 - B. Erythrocytes.
 - C. Brain.
 - D. Skeletal Muscle.
2. Burning foot syndrome is due to deficiency of which of the following vitamin
 - A. Riboflavin.
 - B. Niacin.
 - C. Pantothenic acid.
 - D. Thiamin.
3. Classic Galactosemia due to deficiency of which enzyme ?
 - A. Galactokinase.
 - B. Galactose – 1 – phosphate uridyltransferase.
 - C. Aldose reductase.
 - D. UDP Hexose-4-epimerase.
4. Essential pentosuria due to deficiency of which enzyme?
 - A. UDP – Glucose dehydrogenase.
 - B. Glucose-6-phosphate dehydrogenase.
 - C. Xylulose reductase.
 - D. Gulonolactone oxidase.
5. Which of the following is an Insulin dependent transporter
 - A. Glut 1
 - B. Glut 2
 - C. Glut 3
 - D. Glut 4

6. Which of the following is a Non Reducing sugar?
- A. Maltose.
 - B. Lactose.
 - C. Cellobiose.
 - D. Sucrose.
7. HMG CoA reductase is inhibited by
- A. Clofibrate.
 - B. Gemfibrosyl.
 - C. Lovastatin.
 - D. Cholestyramine.
8. Calories generated per gram of fat is
- A. 4 K Cal.
 - B. 5 K Cal.
 - C. 8 K Cal.
 - D. 9 K Cal.
9. Congenital Erythropoietic porphyria is caused by deficiency of
- A. ALA Synthase.
 - B. Uroporphyrinogen III Co synthase.
 - C. Coproporphyrinogen oxidase.
 - D. Uroporphyrinogen decarboxylase.
10. Daily requirement of Vitamin B1 (Thiamine) for a normal healthy adult is
- A. 1 microgram.
 - B. 5 microgram.
 - C. 100 microgram.
 - D. 1 milligram.
11. All the compounds act as antivitamins except
- A. Avidin.
 - B. Menadione.
 - C. INH.
 - D. Methotrexate.
12. Which enzyme is useful in treating myocardial infarction?
- A. Pepsin
 - B. Trypsin
 - C. Asparaginase
 - D. Streptokinase
13. What is the enzyme used in diagnostic technique of ELISA?
- A. Restriction endonuclease.
 - B. Horse radish peroxidise.
 - C. Reverse transcriptase.
 - D. Urokinase.

14. The glycosaminoglycans that serves as an anticoagulant
- A. Heparin.
 - B. Hyaluronic acid.
 - C. Chondroitin sulphate.
 - D. Dermatan sulphate.
15. In humans, a dietary essential fatty acid is
- A. Palmitic acid.
 - B. Stearic acid.
 - C. Oleic acid.
 - D. Linoleic acid.
16. Dietary fats after absorption appear in the circulation as
- A. HDL.
 - B. VLDL.
 - C. LDL.
 - D. Chylomicron.
17. According to MICHAELIS-MENTEN equation K_m of an enzyme
- A. Is substrate concentration at maximal rate.
 - B. Is substrate concentration at half maximal rate.
 - C. Enzyme concentration at maximum rate.
 - D. Enzyme concentration at half minimum rate.
18. Which of the following mineral is required by glutathione peroxidase
- A. Magnesium.
 - B. Copper.
 - C. Iron.
 - D. Selenium.
19. In liver, the conjugation of bilirubin is catalysed by which of the following enzyme ?
- A. Ferrochelataase.
 - B. UDP – glucuronyltransferase.
 - C. Pyruvate carboxylase.
 - D. Beta – glucuronidase.
20. Human insulin differs from bovine insulin in
- A. Biological activity.
 - B. Number of amino acids.
 - C. Position of disulphide bonds.
 - D. Sequence of amino acids.

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