

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

[MBBS 0222]

MAY 2022

Sub. Code :6056

M.B.B.S. DEGREE EXAMINATION

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

FIRST YEAR – SUPPLEMENTARY (CBME)

PAPER II – BIOCHEMISTRY

MULTIPLE CHOICE QUESTIONS

Q.P. Code: 526056

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. Ketogenic amino acid is
 - A. Valine.
 - B. Cysteine.
 - C. Leucine.
 - D. Threonine.

2. Nitric oxide is synthesized from
 - A. Tyrosine.
 - B. Arginine.
 - C. Histidine.
 - D. Cysteine.

3. The cDNA is prepared by using the enzyme
 - A. RNA polymerase.
 - B. DNA polymerase.
 - C. Reverse transcriptase.
 - D. Restriction endonuclease.

4. Melatonin is synthesized from
 - A. Tyrosine.
 - B. Tryptophan.
 - C. Threonine.
 - D. Glycine.

5. Normal blood pH is
 - A. 6.8 - 7
 - B. 7 - 7.12
 - C. 7.35 - 7.45
 - D. 7.5 – 7.9

6. Which of the following is not a nucleoside?
- A. Adenosine.
 - B. Cytosine.
 - C. Guanosine.
 - D. Xanthosine.
7. Burnt sugar urine odour is seen in
- A. Phenylketonuria.
 - B. Multiple carboxylase deficiency.
 - C. Diabetic ketoacidosis.
 - D. Maple syrup urine disease.
8. Aminoacid carrier defect found in
- A. Maple syrup urine disease.
 - B. Alkaptonuria.
 - C. Phenylketonuria.
 - D. Cystinuria.
9. Stop codons are following except
- A. UGA.
 - B. UAA.
 - C. UAU.
 - D. UAG.
10. Aspartic acid is used for the synthesis of which compound ?
- A. Porphyrin.
 - B. Sphingomyelin.
 - C. Pyrimidine.
 - D. Folic acid.
11. All are transport proteins of blood except
- A. Albumin.
 - B. Transcortin.
 - C. Transferrin.
 - D. Ferritin
12. In which of the following molecule could you find an anti codon ?
- A. rRNA.
 - B. tRNA.
 - C. mRNA.
 - D. SnRNA.
13. Which enzyme protects DNA from aging ?
- A. DNA polymerase.
 - B. Topoisomerase.
 - C. Deoxyribonuclease.
 - D. Telomerase.

14. Histone acetylation causes
- A. Increased heterochromatin formation.
 - B. DNA replication.
 - C. Methylation of cytosine.
 - D. Increased euchromatin formation.
15. Most common cause of Homocystinuria is a defect in the enzyme
- A. Cystathionine synthase.
 - B. Methionine adenosyltransferase.
 - C. Methyl transferase.
 - D. SAH Hydrolase.
16. If one amino acid is coded by more than one triplet, then this is known as
- A. Degeneracy.
 - B. Frame-shift mutation.
 - C. Specificity.
 - D. Universality.
17. Alpha fetoprotein level in serum is increased in
- A. prostate cancer.
 - B. Hepatoma.
 - C. Cancer lung.
 - D. Choriocarcinoma.
18. In pheochromocytoma, true is the excessive urinary excretion of
- A. Vanillylmandelic acid.
 - B. Polyamines.
 - C. Hippuric acid.
 - D. 5 – Hydroxyindole acetic acid.
19. Which polymerase is involved in transcribing mRNA ?
- A. RNA polymerase I
 - B. RNA polymerase II
 - C. RNA polymerase III
 - D. DNA polymerase I
20. Daily requirement of zinc for adult male is
- A. 1 mg
 - B. 10 mg
 - C. 100 mg
 - D. 1000 mg

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