

B. Pharm. CBCS Pattern Semester-II
BP 203T - Biochemistry-I

P. Pages : 2

Time : Three Hours



GUG/W/23/10880

Max. Marks : 75

Notes : 1. All questions are compulsory.

1. Multiple Choice Questions 20

- 1) HMP Shunt Pathway also known as -----
 - a) EMP Pathway
 - b) HIT reaction
 - c) Pentose Phosphate pathway
 - d) Citric acid Pathway
- 2) Essential Amino acid -----
 - a) Proline
 - b) Alanine
 - c) Lyine
 - d) Arginine
- 3) One of the following sulfur Containign Amino Acid,
 - a) Valine
 - b) Isoleucine
 - c) Glutamine
 - d) Cytein
- 4) If $\Delta G > 0$ then -----
 - a) Exergonic reaction
 - b) Endergonic reaction
 - c) Both
 - d) None
- 5) Starch is a -----
 - a) Monosaccharide
 - b) Disaccharide
 - c) Polysaccharide
 - d) All of the above
- 6) Osazone are not carried out in -----
 - a) Glucose
 - b) Fructose
 - c) Sucrose
 - d) Lactose
- 7) Citrate converted to isocitrate by -----
 - a) Aconite
 - b) Isocitrate dehydrogenase
 - c) Fumarate
 - d) None
- 8) No. of molecule of ATP produced in aerobic glycolysis.
 - a) 8
 - b) 10
 - c) 12
 - d) 16
- 9) Synthesis of Glycogen from Glucose is known as -----
 - a) Glycolysis
 - b) Glycogenesis
 - c) Gluconeogenesis
 - d) None
- 10) ATP synthase activity is associated with the mitochondrial enzyme complex.
 - a) V
 - b) III
 - c) IV
 - d) I
- 11) Biomolecule consist of ----- dry body weight.
 - a) 90%
 - b) 50%
 - c) 20%
 - d) 75%
- 12) Building blocks of nucleic acid are -----
 - a) Nucleotides
 - b) Nucleoside
 - c) Amino acids
 - d) Histones

- 13) Coenzyme Q is also known as -----
 - a) Ubiquinone
 - b) Isoprenoid
 - c) Cytochrome A
 - d) None
- 14) The Process of degradation of protein is called as -----
 - a) Denaturation
 - b) Proteolysis
 - c) Saturation
 - d) Both a & b
- 15) Single triplet of nucleotide is known as -----
 - a) Codon
 - b) Codogen
 - c) Triplet
 - d) None of these
- 16) The cellular organelles called suicide bags are -----
 - a) Lysosome
 - b) Ribosome
 - c) Nucleolus
 - d) Golgi bodies
- 17) the powerhouse of cell is -----
 - a) Nucleus
 - b) Cell membrane
 - c) Mitochondria
 - d) Lysosomes
- 18) 5-HTP is converted to serotonin by -----
 - a) Serotonin synthase
 - b) 5-HTP decarboxylase
 - c) 5-HT decarboxylase
 - d) Serotonin decarboxylase
- 19) The compound which has lowest density is
 - a) Chylomicrons
 - b) β -lipoprotein
 - c) α - lipoprotein
 - d) None
- 20) Translation results in the product known as -----
 - a) Protein
 - b) t RNA
 - c) m RNA
 - d) r RNA

2. Long Answer questions solve any two.

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- 1) Explain about Glycolysis in detail with its significance.
- 2) Explain about Krebs pathway in detail with its significance.
- 3) Discuss in detail Bio synthesis of Pyrimidine Nucleotide.

3. Short Answer Questions (Solve any seven)

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- 1) Write about Hormonal Regulation of Blood glucose level.
- 2) Define Bioenergetics and its types and write a relationship between free energy, Enthalpy and Entropy
- 3) Define Carbohydrate and Classify with suitable example.
- 4) Write a short note on atherosclerosis.
- 5) Write a Formulation and utilization of ketone bodies.
- 6) Write a short note on Jaundice and Hyperbilirubinemia.
- 7) Write a Structure and Function of DNA.
- 8) Explain Biological Significance of Cholesterol.
- 9) Write in short Semiconservative Method.
