

**Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University), Coimbatore-641 043**

**Master's Degree Examination – November 2018
I Semester**

**Class : I PG
Major : Biotechnology**

**Time : 3 hours
Max. Marks: 60**

17MBTC01 Biochemical Concepts for Biotechnology

Part A

(10 x 1/2=5)

Choose the correct answer

1. The natural major buffer in living system is-----
a) Acetic acid/sodium acetate b) Carbonic acid/bicarbonate
c) Citric acid/citrate d) Dihydrogen phosphate/biphosphate
2. During glycolysis, electrons removed from glucose are passed to -----
a) FAD b) NAD⁺ c) Acetyl COA d) Pyruvic acid
3. Lactose has -----linkage
a) β 1-4 b) β 1-2 c) α 1-4 d) α 1-2
4. Typical osmolarity of physiological fluids is -----
a) 300 Mosmol L⁻¹ b) 0.3 mosmol L⁻¹ c) 0.3 osmol L⁻¹ d) 300 osmol L⁻¹
5. The process by which a protein structure assumes its functional shape or conformation is-----
a) Denaturing b) Folding c) Synthesis d) Hydrolysis
6. Two chains of amino acids in an insulin molecule are held together by-----
a) Sulfide bridges b) Disulfide bridges c) Peptide bond d) Covalent linkage
7. Cholesterol does not serve as a precursor for -----
a) Vitamin D b) Sex hormones c) Bile salts d) Bile pigments
8. -----is a hydroxyl fatty acid
a) Linoleic acid b) Palmitic acid c) Linolenic acid d) Cerebronic acid
9. The nucleic acid that has a left handed helix is-----
a) M-RNA b) T-RNA c) A-DNA d) Z-DNA
10. Which of the following are reduced coenzymes?
a) NADH and FADH₂ b) NAD⁺ and FAD
c) ATP and GTP d) Coenzyme A and ubiquinone

