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Question Paper Code: 59713

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Third Semester

Biomedical Engineering

19UBM303 – BIOCHEMISTRY

(Regulation 2019)

Duration: One hour

Maximum: 30Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. In a solution the agent that gets dissolved is known as the CO1- R
(a) Solvent (b) Solute (c) Colloid (d) Mixture
2. Cholesterol is a _____ CO1- R
(a) Saturated fat (b) Un saturated fat (c) Steroid (d) Essential oil
3. Location of pyruvate molecules CO2-R
(a) Nucleus (b) Cytosol (c) Mitochondria (d) Mitochondrial matrix
4. Majority of the monosaccharide found in the human body are of _____ CO2- R
(a) L-type (b) D-type (c) DL-types (d) None of the above
5. Which is the simplest amino acid and which amino acid lacks the asymmetric 'C' atom? CO3- R
(a) Glycine (b) Adenine (c) Histidine (d) Transverse
6. Which of the following is an imino acid? CO3- R
(a) Alanine (b) Proline (c) Serine (d) Glycine
7. Building blocks of nucleic acids are _____ CO4- R
(a) Nucleotides (b) Nucleosides (c) Histones (d) Amino acids
8. Name an enzyme that digests fat? CO4- R
(a) Maltase (b) Fructose (c) Lipase (d) Sucrase
9. _____ involved for nitrogen fixing in plant. CO5- U
(a) Stem (b) Main root (c) Hairy root (d) Legumes

10. Which technique separates charged particles using electric field? CO5- U
(a) Hydrolysis (b) Electrophoresis (c) Protein synthesis (d) Protein denaturing

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

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| 11. Investigate Thermodynamics and its application. | CO1- Ana | (8) |
| 12. Interpret glycolysis with its metabolic disorder. | CO2- Ana | (8) |
| 13. Explain the mechanism of different types of proteins folding. | CO3- Ana | (8) |
| 14. Classify the chemical nature of enzymes with examples. | CO4- U | (8) |
| 15. Analyze the mechanism of nitrogen fixation in the environment. | CO5- Ana | (8) |