

17 OCT 2019

M.Sc.- SEMESTER –I EXAMINATION, October-2019

Paper-02 (Biochemistry) Paper code: 2745

Time: -2:30 Hours

Total Marks:-70

Instructions: (1) All Questions carries equal marks.
(2) Draw labeled diagram where necessary.

- Q:1 (A)** Describe: Protein Synthesis in detail. 14
OR
Write on (i) Peptide bond formation. 07
(ii) Aromatic amino acids. 07
- (B)** Write answer in short (Any four out of six) 04
- (a) Which method is used for Protein sequencing? (d) Define: Transcription.
(b) Name the Initiation codon? (e) What is Crude extract?
(c) Which amino acids are Aromatic in nature? (f) Define: r-RNA.
- Q:2 (A)** Write detailed account on Gluconeogenesis. 14
OR
Write on (i) Glycolysis. 07
(ii) Glyco-conjugates. 07
- (B)** Write answer in short (Any four out of six) 04
- (a) Give an example of Tetrose sugar. (d) Define: Proteoglycans.
(b) Give an example of Espiers. (e) What is Anomer?
(c) What are the components molecules of Chitin? (f) Define: Polysaccharides.
- Q:3 (A)** Describe in detail: β -Oxidation of Saturated Fatty acid. 14
OR
Write short note on (i) IP_3 as a secondary messenger molecule. 07
(ii) Lipid aggregates. 07
- (B)** Write answer in short (Any three out of five) 03
- (a) Which tissue stores lipid? (d) What is Vitamin?
(b) Vitamin A is also known as _____. (e) Define: Amniocentesis.
(c) Define: Rancidity.
- Q:4 (A)** Describe in detail: Catecholamines. 14
OR
Give reasons (i) How enzymes lowers activation energy? 07
(ii) Insulin is a hypoglycemic hormone. 07
- (B)** Write answer in short (Any three out of five) 03
- (a) Give an example of steroid Hormones. (d) What is an enzyme?
(b) Write any two function of Ethylene. (e) Give an example of IAA.
(c) Which metallic ion present in Carbonic anhydrase?