



GAP-032007

Seat No. _____

B. Sc. (Sem. II) Examination

March / April - 2019

BSCOC207 - Biochemistry

Time : 3 Hours]

[Total Marks : 70

- 1 (a) Explain the method of SDS-PAGE. 7

OR

- (a) Classify amino acids containing hydroxyl group and acidic amino acids with its structure. 7

- (b) Explain chemical properties of amino acids. 7

OR

- (b) Write principle method and application of affinity chromatography. 7

- 2 (a) Explain in detail protein sequencing methods. 7

OR

- (a) Write a note on α -helix. 7

- (b) Explain : Solid phase peptide synthesis. 7

OR

- (b) Define protein and explain B plated sheets. 7

- 3 (a) Explain Ramachandran plot. 7

OR

- (a) What is Hb and myoglobin ? Write its structure and function. 7

- (b) Write name and function of muscle protein and explain muscle contraction. 7

OR

- (b) Define antibody. Write its types and explain structure of antibody. 7

4 (a) What do you know about protein folding ? 7

OR

(a) Explain in detail Alzheimer's disease. 7

(b) What is PDB ? Explain in detail. 7

OR

(b) What do you mean by prions ? Write note on prion based disease. 7

5 Answer in short : (one mark each) 1×14=14

(1) Write structure of D-amino acids and L-amino acids.

(2) What is Imino acids write example.

(3) What do you know about taste of amino acids ?

(4) Write examples of Glycogenic and ketogenic amino acids.

(5) How protein organize ?

(6) How overlap peptides can be generated ?

(7) What is secondary structure of protein ?

(8) Define motifs.

(9) Write in short domains.

(10) What is IEF ?

(11) How ribonuclease A denature ?

(12) What is molten globule ?

(13) Write name of protein which mediate the protein folding.

(14) What do you know about RCSB ?
