

Shahjalal University of Science & Technology, Sylhet
Department of Biochemistry & Molecular Biology
BMB121: Introductory Biochemistry (28/04/2012)
Time- 40 minute Marks-20

1. What do you mean by essential amino acid? Name them. 3.0
2. How do you determine the aromatic amino acids? 2.0
3. What is pI? Derive the equation for calculating the pI of an amino acid. 3.0
4. Name the following amino acids and write their respective structure: (a) An optically inactive amino acid; (b) Indole group containing amino acid; (c) Amide group containing amino acid; (d) Sulfur containing amino acid; (e) ϵ -amino group containing amino acid; (f) An imino acid. (g) A negatively charged amino acid. 7.0
5. Briefly explain the titration curve of histidine. 3.0
6. What do you mean by ampholytes? Give an example. 2.0