

BMB121: Introductory Biochemistry (28/04/2011)

Term Test

Time- 1 hour Marks-20

1. What is amino acid? Classify the amino acids on the basis of polarity. 1+2
2. What is pI? Derive the equation for calculating the pI of an amino acid. 1+2
3. What do you understand by essential amino acid? Name them. 2.0
4. Name the following amino acids and write their respective structure: 4.0
 - (a). An optically active amino acid.
 - (b). An Indole group containing amino acid.
 - (c). An amino acid containing an amide group.
 - (d). Imidazole group containing amino acid.
 - (e). Guanido group containing amino acid.
 - (f). An amino acid found in urea cycle.
 - (g). A neurotransmitter.
 - (h). An amino acid used in thyroxine synthesis.
5. How do you determine the presence of amino acid in a solution? 2.0
6. How do you determine the aromatic amino acids? 2.0
7. How do you determine cysteine and Arginine? 2+2