Unit-Test – Biomolecules

Time – 1hr

M. Marks = 26

1. How are vitamins classified? Name the vitamin responsible for coagulation of blood. (2)

2. (i) Amino acids may be acidic, alkaline or neutral, how does this happen? Explain with the help of an example? (2)

(ii) What are essential or non-essential amino acids? Name one of each type. (1)

3. (a) Which of the following statement is incorrect?

(a) Primary amines show intermolecular hydrogen bonds.

(b) Tert. butylamine is a primary amine ×

(c) Tertiary amines do not show intermolecular hydrogen bonds.

(d) Isopropylamine is a secondary amine. (1)

(b) Name the sugar present in milk. (1)

(c) How many monosaccharides are linked with sugar present in milk? What are such oligosaccharides called? ($\frac{1}{2}+\frac{1}{2}=1$)

4. (a) Which of the following is not an example of protein – (i) amino acids (ii) antibodies (iii) cellulose (iv) enzymes. (1)

(b) Why glycine is optically inactive? (1)

(c) Give the reaction of heating glucose with hydroxy amine. Presence of which gp. is confirmed by this reaction? (1)