

- N.B: (1) Question No.1 is compulsory.
(2) Attempt any three questions out of remaining five questions.
(3) Draw diagrams/ figure wherever necessary.

1. Write short notes on any four of the following:

- (a) alpha-helix
- (b) Weak interactions
- (c) snRNA
- (d) Motifs
- (e) Reducing sugar

(20)

2. (a) Give structural comparison of different monosaccharides.

(10)

(b) How structures can be studied using scanning electron microscope.

(10)

3. (a) Explain nuclear import mechanism in detail.

(10)

(b) Describe tertiary architecture and quaternary organization of proteins.

(10)

4. (a) Describe assembly of membrane components and their significance.

(10)

(b) Explain crystal generation and structure prediction of biomolecules.

(10)

5. (a) Explain disorders caused by saturated fat and cholesterol.

(10)

(b) Describe NMR in detail.

(10)

6. (a) Explain Zinc finger proteins

(10)

(b) Describe structure and function of tRNA in detail.

(10)