

(L) T.E-BT/V/Rev/BioPhy

QP Code : 3430

BioPhysics

29/5/15

(21)

(3 Hours)

Total Marks: 80

- NB: (1) Question No.1 is compulsory
(2) Attempt any 3 questions out of remaining 5 questions
(3) Each question is of 20 marks
(4) Figures to right indicates full marks

- Q.1 Write short notes on :
- (a) Composition of macromolecules (5)
 - (b) Principle of crystallography (5)
 - (c) DNA Binding proteins (5)
 - (d) Membrane Trafficking. (5)
- Q.2 (a) Explain the working of NMR in detail. (10)
- (b) How do forces between atoms and molecules at the Intracellular level in protein interaction. (10)
- Q.3 (a) Explain Two Dimensional Fluids. (10)
- (b) Explain Helix-coil transitions. (10)
- Q.4 (a) What are Chaperones proteins? (10)
- (b) What are Lipoproteins? (10)
- Q.5 (a) How does Ions and sugars transport across membranes occur? (10)
- (b) Explain the Movement of lipids inside the bilayer. (10)
- Q.6 (a) Role of Importins and exportins in nuclear transport. (10)
- (b) Explain Leucine zipper model. (10)

JP-Con. : 11329-15.