

Assignment 1 (Biophysics) Unit 1

(M:M: 100)

All Questions are compulsory. Draw neat and labelled diagram wherever required.

- Q.1 Write short note on Biophysics. Discuss various opportunities available to Biophysicists.
- Q2. With the help of neat and labelled diagram discuss structure and functions of a cell.
- Q3. Tabulate various differences and similarities between: -
- (i) Eukaryotic cells and Prokaryotic cells.
 - (ii) Animal cells and Plant cells.
- Q4. What is Fluid Mosaic Model of cell membrane. With the help of labelled diagram discuss in brief various components of cells.
- Q5. Differentiate between Diffusion and Osmosis giving suitable examples and labelled diagrams.
- Q6. Write a short note on Donnan Equilibrium.
- Q7. Write a short note on GHK.
- Q8. What is pacemaker. What is its need. Draw and discuss various components of pacemakers.
- Q9. Write short note on NMJ.
- Q10. (i) Write (at least five) names of International Journals publishing research papers of Biophysics.
- (iii) Write Title and authors names (at least five) of research papers in Biophysics you studied related to your topics in unit 1.
