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Roll No.

B. Sc. (Micro.)-II Year

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B. Sc. (Micro.) Examination, May 2016

CELL BIOLOGY

(B-201)

Time : Three Hours] [Maximum Marks : 40

Note : Attempt any five questions. All questions carry equal marks. Draw neat and well labelled diagrams wherever required.

1. Discuss cell as a basic unit of living system.
2. Comment upon various levels of organization.
3. Give a detailed ultrastructure of any four of the following :
 - (i) Golgi bodies
 - (ii) Endoplasmic reticulum

- (iii) Ribosomes
- (iv) Cytoskeletal
- (v) Mitochondria
- (vi) Chloroplast.

4. Who gave Fluid Mosaic Model ? Comment upon different models of cell membrane structure.
5. Describe the mechanism of transport across cell membrane.
6. Write down the main features of prokaryotic cell wall. Differentiate prokaryotic cell wall from the cell wall of eukaryotic microbes.
7. Describe the mechanism of Osmotic protection in prokaryotes.
8. Write short notes on the following :
 - (i) Capsule in Bacteria
 - (ii) Classes of Pilli.

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9/ Describe the structure of bacterial flagella. Comment upon movement in bacteria.

10. Write short notes on any two of the following:

(i) Peroxisomes

(ii) Nuclear envelop

(iii) Lysosome

(iv) Proton pump.