

[3M]

**Q.II.B. Answer the following (any 2)**

1. Differentiate between gram positive bacterial cell wall and gram negative bacterial cell wall.
2. Explain diffusion in brief.
3. What is pinocytosis?
4. What is cytoskeleton? What is it comprised of?

[6M]

**Q.II.C. Answer the following (any 1)**

1. Give a brief account on plant cell wall.
2. Elaborate on endocytosis and exocytosis.

[8M]

**Q.III.A. Answer the following (any 4)**

1. What do you mean by peri-mitochondrial space?
2. What is porin protein?
3. Mention about occurrence of ER.
4. What do you mean by pleomorphism? Give one example of pleomorphic organelle.
5. What do you mean by cis and trans cisternae?
6. What is thylakoid?
7. Describe the GERL complex.
8. What do you mean by primary lysosome?

[6M]

**Q.III.B. Answer any two of the following (any 2)**

1. Write a note on  $F_0-F_1$  particle of mitochondria.
2. Write a note on structure of chloroplast.
3. State elaborately any one function of mitochondria.
4. State different function of Golgi in plants.

**Q.III.C Answer the following question in details (Any 1)**

[6M]

1. Describe in short about different function of chloroplast.
2. Write a note on structure of E.R.

**Q.IV.1.A. Answer in short (Any 1)**

[2M]

1. Name the bacterial cell which gave rise to chloroplast and mitochondria.
2. Give the functions of vacuole in plant cell.

(contd.)