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Exam. Code : 107404 Subject Code : 2304

B.Sc. (Bio-Technology) 4th Semester BT-4 : CELL BIOLOGY—B

Time Allowed—3 Hours] [Maximum Marks—40

SECTION-A

- Note :— Attempt ALL the questions. Answer to any question should not exceed 1/3 of a page.
- 1. Define actin filaments.
- 2. What are dictyosomes ?
- 3. Define nucleolus.
- 4. Give the functions of peroxysomes.
- 5. What do you understand by amitosis ?
- 6. Define cilia.
- 7. Define a pleuripotent cell.
- 8. What do you understand by necrosis ? 8×1=8

SECTION-B

Note :— Attempt any *five* questions. Answer to any question should not exceed 2 pages.

- 1. Write a short note on rough endoplasmic reticulum.
- 2. Describe the structure and functions of ribosomes.
- 3. What are the characteristic structural features of mitochondria that aid in their identification ?

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- 4. What are the functions of chloroplasts ?
- 5. Define mitosis. Give the significance of mitosis.
- 6. Write a note on flagellar locomotion.
- 7. Briefly describe artificial creation of 'cells'.
- 8. Describe apoptosis and its significance. $5 \times 4 = 20$

SECTION-C

- Note :— Attempt any *two* questions. Answer to any question should not exceed 5 pages.
- 1. With the help of a labelled diagram, describe the ultrastructure of cell membrane. Discuss its important functions.
- 2. Describe in detail the ultrastructure of nucleus. Discuss its significance.
- 3. Describe in detail the process of meiosis with the help of diagrams. What is the significance of this process ?
- 4. Describe cell differentiation in plants and animals.

2×6=12

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