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Total No. of Questions: 09

B.Sc.(BT) (2013 to 2017) (Sem.-2) CELL BIOLOGY

Subject Code: BSBT-102 Paper ID: [F0232]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Q1. Answer briefly:

- a) Give the names of any two dye used for visualising eukaryotic cells.
- b) Which cell organelle is said to be the powerhouse of a cell and why?
- c) Which chemical is used as fixative or fixing agent?
- d) What is the function of lysosomes in cell?
- e) Name the different stages/phases of a cell cycle.
- f) Cell is a basic unit of life. Why?
- g) What is a cryoprotectant. Name any one.
- h) What is karyotyping?
- i) What is the difference between a cell and a tissue?
- j) What is apoptosis?



SECTION-B

- Q2. Explain briefly about the cell theory.
- Q3. Discuss about the structure and function of nerve cells present in multicellular organism.
- Q4. Give a brief account of structure of chromatin.
- Q5. What is freeze drying? Give the steps involved in freeze drying.
- Q6. Discuss various methods for cytophotometric analysis.

SECTION-C

- Q7. Write short notes on any two:
 - a) Cytoskeletal structure
 - b) Ribosomes
 - c) Cell division
 - d) Microtomy
- Q8. Give detail account for different types of cells present in a multicellular organism.
- Q9. Give the structure and function of rough and smooth endoplasmic reticulum.