biological

2020/TDC(CBCS)/ODD/SEM/ BTCHCC-102T/299

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What is midely selected.

(a) What is thyluboid membrane

(d) What is a Golun body?

TDC (CBCS) Odd Semester Exam., 2020 held in March, 2021

BIOTECHNOLOGY

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Course No.: BTCHCC-102T

(Cell Biology)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A

1. Answer any ten of the following questions:

 $2 \times 10 = 20$

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- (a) Describe the structure of the endoplasmic reticulum.
- (b) What is cytosol?
- (c) What is cell fractionation?

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(Turn Over)

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- (d) What is a Golgi body?
- (e) What is a cell surface receptor?
- Are glycoproteins found in biological membranes? Comment.
- Name any two lipids found in membranes. 1912 | 181
- (h) What is passive transport?
- State the function of the cytoskeleton.
- What are microtubules composed of?
- (k) What are vacuoles?
- What is protein segregation?
- (m) What are ribosomes?
- (n) Discuss the structure mitochondria.
- (o) What is thylakoid membrane?
- (p) What is the function of the nucleolus?
- (q) Name any two viral carcinogens.
- (r) Name any protein found the extracellular matrix.
- (s) What is cadherin?
- (t) What is a receptor tyrosine kinase?

SECTION-B

6×5=30 Answer any five of the following questions:

- 2. Draw and label different components of a eukaryotic cell. Discuss compartmentalization of eukaryotic cells.
- 3. Discuss the technique of cell fractionation.
- 4. Write a note on the chemical components of biological membranes.
- 5. Explain how a cell membrane is involved in cell recognition.
- 6. Discuss the biogenesis and functions of Golgi complex.
- 7. Write down the roles of microtubules, microfilaments and intermediate filaments.
- 8. Differentiate between prokaryotic and eukaryotic ribosomes.
- 9. Discuss chromosomal structure. Add a note on the types of chromosomes.
- 10. Write about different cell adhesion molecules and their functions.
- 11. Write about the characteristics and molecular basis of cancer.

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