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2022/TDC/ODD/SEM/ BTCHCC-102T/299

TDC (CBCS) Odd Semester Exam., 2022

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BIOTECHNOLOGY

(Honours)

(1st Semester)

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

Differentiate between ective and passure UNIT—I

- 1. Answer any two of the following: $2\times2=4$
 - (a) Write a note on cell theory.
 - (b) Write about the classification of organisms on the basis of cell structure.
 - (c) Give a brief account of cell fractionation.

(Turn Over)

J23**/95**



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2. Answer any one of the following:

	CAT COME A PROPERTY NAME OF THE PROPERTY OF TH	The state of the s
(a)	between prokaryotic and	5. Answer any two of the following: 2×2= (a) Write a note on microtubules.
(b)	of eukaryotic cells. Point out the advantages of multicellular organisms. 4+2=6	(b) Write about microfilaments.(c) Mention the role of Golgi complex in protein secretion.
3. An	UNIT—II aswer any <i>two</i> of the following: $2 \times 2 = 4$	 6. Answer any one of the following: (a) Describe briefly membrane vacuolar system. Add a note on cytoskeleton.
(a)	t is note on membrane	(b) Give a detailed account of structure and function of endoplasmic reticulum. 4+2=
(b)	Write about facilitated diffusion.	UNIT—IV
(c)	transport.	7. Answer any two of the following: 2×2=
4. An	aswer any one of the following: 6	(a) Define microbodies.
(a)	transport through membrane.	(b) Write a note on mitochondrial genome.(c) Write a note on vacuoles.
(b)	Describe fluid mosaic model of plasma membrane with necessary diagram.	
J23 /95	(Continued)	J23 /95 (Turn Over



Answer any one of the following:	•	lowing	fol	the	of	one	any	Anewer	0
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Give an illustrated account of (a) lysosomes. Point out their functions. White a note on ancropubales.

Describe structure and functions of (b) 5+1=6chloroplasts. le viet och spille id and and areas

gratai tihaita.

Answer any two of the following:

- on note brief Write (a) transduction.
- Write the composition of cellular matrix.
- Write a note on agents promoting carcinogenesis.

LOT YOUTH

10. Answer any one of the following:

6

- Give a detailed account of membrane (a) receptors for extracellular matrix.
- (b) Give an elaborate account of characteristics and molecular basis of cancerasionasy no ston a stall (st

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Dr. Card