

2018/TDC/ODD/BTCC-102T/109

TDC (CBCS) Odd Semester Exam., 2018

BIOTECHNOLOGY

classify the organism with citing proper

(1st Semester)

tute cell fractionation.

Course No.: BTCHCC-102T

(Cell Biology)

Full Marks: 50
Pass Marks: 20

Time: 3 hours with the saw a A

The figures in the margin indicate full marks for the questions

Answer all questions

Smootingoods liso Unit—I

- 1. Answer any two questions of the following:
 - (a) Who proposed modern cell theory with the statement?

(b) What is plasmodesmata? What is its importance?

(c) What are the chemical composition of cytosol?

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(Turn Over)

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(Continued)

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UNIT-III

5.	Ansv	wer any two questions of the following:	1
	(a)	What is cytoskeleton? Write its function.	2
\$	(b)	What are the different types of intermediate filaments?	2
	(c)	Name two proteins with their functions associated with the microtubules.	2
6: S	(a)	Draw and describe the structure of endoplasmic structure with function.	6
	(Tarr	(ii) Add a note on re 70 ror melecules of	13
ð	(b)	Write a note on biogenesis of Golgi complex and its role in protein	ϵ
		The state of the s	
	RIBER	(b) Write in detVI—TINU molecular b	
7.	Ansv	wer any <i>two</i> questions of the following:	
	(a)	When and who discovered nucleus?	2
	(b)	What is F ₀ -F ₁ particle?	2
	(c)	Why is lysosome known as the suicidal bag of the cell?	2
8.	(a)	Describe the ultrastructure of mitochondria and add a note on how ATP is forming inside the mitochondria.	6
		Or	
	(b)	What is kinetochore? Write in detail the structure of eukaryotic chromosome.	6
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UNIT-V

9.	Answer any two questions of the following:
2	(a) What are extracellular matrix (ECM)? What are the functions of ECM?
2	(b) Write the name of some signalling molecule with function.
ð	(c) What are macromolecules? What are the importance of macrotubule?
10.	(a) Add a note on receptor molecules of cell
ð	Or Stories Times
	(b) Write in detail about molecular basis of cancer generations.
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