1 SEM TDC BOTH (CBCS) C 2

2022

(Nov/Dec)

BOTANY

(Core)

Paper: C-2

(Biomolecules and Cell Biology)

Full Marks: 53
Pass Marks: 21

Time: 3 hours

The figures in the margin indicate full marks for the questions

1.	Fill in the blanks of the following:									
	(a)	A water molecule has polar covalent bonds.								
	(b)	The bond of ATP is the highest energetic bond.								
	(c)	Prokaryotic ribosomes are ofS types.								
P23/	89	(Turn Over)								

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(b) Fluid mosaic model	(a) Function of chromosome	Write short notes on:	Or	lysosomes. 6+6	With labelled sketches, describe	(d) Membrane transport	(c) ATP as energy currency	(b) Nitrogenous bases	(a) Saponification	2. Write short notes on any <i>three</i> of the following:	(e) rnospnonpias are in nature.		(d) DNA synthesis occurs in synthetic phase of	(2)
		4×3=12 ***		and 6+6=12 (d) Endocytosis	e (c) Composition of carbohydrates	(b) Function of endoplasmic reticulum	(a) "Mitochondria is the powerhouse of the cell."	following: 4×3=12	5. Write short notes on any three of the	the (b) Cell cycle checkpoints 4×3=12	(a) Role of enzymes	Write on the following: $6\times2=12$	c Or	(3)

4. What is protein denaturation? Describe the biological roles of proteins. 6+6=12

(c) Function of chloroplasts