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: 1×5=5
	(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)

	(d)	DNA synthesis occurs in synthesis occurs in synthesis	netic	
	(e)	Phospholipids are in nature.		
2.		e short notes on any three of wing:	the 4×3=12	
	(a)	Saponification		
	(b)	Nitrogenous bases		
	(c)	ATP as energy currency		
	(d)	Membrane transport		
3.	struc	labelled sketches, describe eture and functions of ribosomes somes.	the and 6+6=12	
		Or		
	Write short notes on:			
	(a)	Function of chromosome		
	(b)	Fluid mosaic model		
	(c)	Function of chloroplasts		
4.		t is protein denaturation? Describe gical roles of proteins.	the 6+6=12	

Or

Write on the following:

 $6 \times 2 = 12$

- (a) Role of enzymes
- (b) Cell cycle checkpoints
- 5. Write short notes on any three of the following: $4 \times 3 = 12$
 - (a) "Mitochondria is the powerhouse of the cell."
 - (b) Function of endoplasmic reticulum
 - (c) Composition of carbohydrates
 - (d) Endocytosis