## 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.
003/	20	( Trum O.

	(d)	DNA synthesis occurs in synthesis of	netic		
	(e)	Phospholipids are in nature.			
2.		te 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.	stru	labelled sketches, describe cture and functions of ribosomes somes.			
Or					
	Write short notes on : $4\times3=1$				
	(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:

6×2=12

- (a) Role of enzymes
- (b) Cell cycle checkpoints
- **5.** Write short notes on any *three* of the following:  $4\times3=12$ 
  - (a) "Mitochondria is the powerhouse of the cell."
  - (b) Function of endoplasmic reticulum
  - (c) Composition of carbohydrates
  - (d) Endocytosis

