1 SEM TDC BOTH (CBCS) C 2

2019

(December)

BOTANY

(Core)

Paper: C2

(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:		1×5=5
	(a)	The hydrolysis of fat by organisms called	is
	(b)	The cells of the multicellular organism are held together by	ns
	(c)	The process of intake of fluid vesicles	by

living cells is called _

20P/506

(Turn Over)

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(d) The two strands of the double helix of DNA are held together by ____ bonds. Prokaryotic ribosomes are ____ S type. (e) Write short notes on the following 2. three): $4 \times 3 = 12$ Characteristic features of prokaryotic (a) cell 150 (b) ATP as energy currency (c) Significance of meiosis (d) Properties of water Describe the structures and functions of protein with example. 8+4=12 Or Write short notes on the following: $4\times3=12$ (a) pH and buffer (b) Biological properties of lipids (c) Ribonucleic acid suitable diagram, describe the With structure and functions of mitochondria. 3+5+4=12 OrWrite short notes on the following: (a) Membrane transport 4 Structure and functions of DNA 6+2=820P/506 (Continued)

- 5. Write short notes on the following (any three): $4\times3=12$
 - (a) First law of thermodynamics
 - (b) Polysaccharides as reserve food materials
 - (c) Redox reactions
 - (d) Properties of enzymes
