## Total No. of Printed Pages—3

## 2 SEM TDC ZOOH (CBCS) C 4

2022

(June/July)

**ZOOLOGY** 

(Core)

Paper: C-4

(Cell Biology)

Full Marks: 53

Pass Marks: 21

Time: 3 hours

The figures in the margin indicate full marks for the questions

4	EN:11	in	the	blanks	•
1.	ГЩ	ш	uic	DIGHTES	•

1×5=5

- (a) Membrane bound organelles are absent in \_\_\_\_\_.
- (b) Virus that attaches bacteria is called
- (c) Microtubules are hollow unbranched tubes composed of subunits of protein

	(d)	Nucleoplasm i	s also kr	own a	s			
	(e)	is a activated duri			prote	in		
2.	Dist	inguish betwee	n (any <i>t</i> i	vo) :		3×2=6		
	(a) Osmosis and Diffusion							
(b) Heterochromatin and Euchromatin								
	(c) <sub>.</sub>	Viroid and Vi	rus					
3.	(c) a (a) (b) (c)	te short note and (d)]:  Function of ly S-phase  Desmosomes  Nucleosome			d (b)	or 3×2=6		
4.		cuss the str rofilaments.	ucture a	and fu	inction	of 4+3=7		
5.	Dis par	cuss the str ticle and respi	ucture ratory ch	of mit ain.		rial 4+5=9		

Or

Give an account of chemiosmotic theory.

Mention the functions of mitochondria. 5+4=9

(Continued)

- **6.** Describe the various stages of mitosis with necessary diagrams. 5+2=7
- 7. Write about the structure of nuclear envelope and mention two important functions of it.
  5+2=7
- Discuss the role of second messengers. Write briefly about molecular structure of GPCR. 3+3=6

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