## 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

1.	Fill	in	the	blanks	

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) (e)	Nucleoplasm is also known as  is a multifunctional protest activated during G <sub>1</sub> phase.	in				
2.	Dist	inguish between (any two):	3×2=6				
	(a)	Osmosis and Diffusion					
	(b)	(b) Heterochromatin and Euchromatin					
	(c)	Viroi and Virus					
<i>-</i> 3.		te short notes on $[(a)$ and $(b)$ and $(d)$ ]:	or 3×2=6				
	(a)	Function of lysosomes					
	(b)	S-phase					
	(c)	Desmosomes					
	(d)	Nucleosome					
4.		ccuss the structure and function crofilaments.	of 4+3=7				
5.		scuss the structure of mitochond rticle and respiratory chain.	rial 4+5=9				
		Or					

Give an account of chemiosmotic theory. Mention the functions of mitochondria. 5+4=9

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
- 8. Discuss the role of second messengers. Write briefly about molecular structure of GPCR. 3+3=6

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