ZOOLOGY PAPER-I

Cell Biology (Zoo-101)

Time Allowed: Three Hours

Note: Attempt five questions in	all, sele	ecting one questio	n from each ur	nit
and Question No. 1 is compulsory. Dra	aw well	labelled diagrams	where require	d. `
1. Explain briefly:	May Fa	or autiel (i		4
(a) Mordant	(b)	Kinetochore	MARKET STATE	
(c) C-value	(d)	Oncogene	9	
(e) Passive Immunity	(f)	Endocytosis		
(g) Karyotype	(h)	Osmosis		
(i) Active Transport	(j)	TEM	10×1.5=	=15
	NIT-I	a to the		
2. (a) What do you understand	by Pa	solving Power o	f a microscop	e?
Give the factors which in	fluence	it. The one of the	Ki think	7
a v	lectron	Microscope.		6
3. (a) Describe the model which	ch best	explains the str	ucture of Pla	sma
a summa and its functi	oning.			10
the two kinds o	factive	e groups in stains	? Give examp	ples.
(b) What are the two kinds		The state is a second	*1.1	3
一个一个一个的人的	UNIT			
4. (a) Discuss the structure and	d types	of Endoplasmic	Reticulum.	9
1 - 6 1 / 10 10		11 1		4
4. (a) Discuss the structure (b) What is the role of ER in	l functi	ons of Golgi Con	nplex.	10
(b) What is the role of ER III 5. (a) Explain the structure and	NIA 9	allahar Mas et .	A Above	3
5. (a) Explain the state of the	JNA !			

UNIT-III	
6. (a) Discuss 'Lysosomal Polymorphism' and explain the role	of
lysosomes in the cell.	10
(b) What is the role of centrosome in cell division?	3
7. (a) Explain the structure and composition of ribosomes.	10
(b) Differentiate between eukaryotic and prokaryotic ribosomes.	3
UNIT-IV	
8. (a) Describe the nucleosome-solenoid model or Chromatin structu	re.
	10
(b) Differentiate between euchromatin and heterochromatin.	3
9. (a) Discuss the various types of Cancer.	9
(b) What are the characteristics of Cancer Cells?	4