शर्थ - 022



60

P. Pages : 3 Time : Two			ZOOLOGY PAPER - II : ZOO-112 Cell Biology (115102)	Max. Marks: 6
	Ins	1. 2. 3. 4.	ions to Candidates:  Do not write anything on question paper except Seat No.  Graph or diagram should be drawn with the black ink performed with the black ink pe	en being used
1.	A)	Mu	Itiple choice questions any six.	6
		i)	Cell biology is the study of  a) Tissue b) Organ c) Cell d) None	
		ii)	a) Tissue b) Organ c) Cell d) None	
		iii)	Lipid bilayer is a) Hydrophilic b) Hydrophobic c) Hydrophilic and hydrophobic d) Depends on the surrounding medium.	
	,	iv)	Which of the following membrane has the largest amount	of proteins.
			<ul> <li>a) Erythrocyte membrane</li> <li>b) Myelin sheath membrane</li> <li>c) Inner mitochondrial membrane</li> <li>d) Outer mitochondrial membrane.</li> </ul>	
		<b>v</b> )	is the power house of cell.  a) Ribosome b) Lysosome c) Mitochondria d) Golgi.	
ार्थ - ०	)22		A , M , The Company of the Company o	070

· · · · · · · · · · · · · · · · · · ·	vi)	In cell cycle phase know a) S-phase c) G2-phase	n as s b) d)		
	vii)	The ageing also affects the a) Glycolysis c) Glyco phospholysis	b) d)	Agelysis None	
	viii)	The most simplest theory of age organism by genetic inheritance a) Age clock c) Genetic age	eing st or. "- b) d)	tates that it is govern in an  Genetic clock Clock of age.	
В)	Ans	wer in one sentence any six. What is mean by prokaryotic ce			6
	ii) iii)	What is Archaebacteria? What is mean by unicellular?			
.1.	iv) v)	What is cell membrane?  Enlist various shapes of nucleu	s.		
	vi)	What is Karyokinesis? What do you mean by G2 phas			
ý.	viii	) What is cell ageing?	0:	en e	•
	a)	fine/Explain/comment. any six.  Eukaryotic cell	b)	Prokaryotic cell,	<b>2</b>
	c)	Osmosis,	d)	Diffusion,	
	e)	Exosmosis,	f)	Endosmosis,	
l ,	g)	Meiosis	h)	G1-phase,	
	i)	Cancer.			

2.

			शर्थ	- 022
3.	Att	empt any four from the following.		12
	i)	Sketch and label eukaryotic cell.		
	ii)	Explain the unit membrane.		
	iii)	Explain ultrastructure of nucleus.		-
	iv)	Write any four functions of mitochondria.		
	v)	Explain in short the phases of cell cycle.		
	vi)	Write a note on cellular theories of ageing.		
4.	Att	empt any three from the following.		12
	i)	Explain the singer-Nicolson model.	٠	
	ii)	Write a note on ER.		
	iii)	Give the functions of Ribosomes.		•
	iy)	Sketch and label cell cycle.	y .	
	v)	Write a note on cell ageing.		
5.	De	scribe in detail of the following any two.		12
	<b>i)</b>	Explain structure and function of Lysosome.		2
	. "11	Give an account of the meiotic type of cell division		

iii) Explain programmed cell death.