Seat Number



ZOOLOGY PAPER - II : ZOO - 112 Cell Biology (115102)

arks: 60

6

P. Pages : 3 Time : Two Hours								
						Max. Mark		
	Ins			ns to Candidates :				
		1.	Do	not write anything o	n questic	on paper except Seat No.		
		2.	Gr	aph or diagram shou ed for writing paper (ld be dra	wn with the black ink pen being		
		3.	St	udents should note, i	no supple	ment will be provided		
		4.	All	questions are compl arks.	ulsory an	d figures to the right indicate full		
		5.	Dr	aw neat labelled diag	rams wh	erever necessary.		
1.	1. a) Multiple choice questions any six.							
		i)	Th	e term cell was first	used by-			
				Z. Janssen	b)	H. Janssen		
			c)	Robert Hook	d)	Schwann		
ii) Which of the following membrane has the						e has the largest amount of		
			pro	oteins.				
				Erythrocyte membra				
			D)	Myelin sheath mem	brane.			
				Inner mitochondrial Outer mitochondria				
		iii)	Th	e ribosomes are mea	nt for			
		1000		Phosphorylation	b)	Respiration		
				Protein synthesis		Oxidation.		
		iv)	In	cell cycle phas	e is knov	vn as synthesis phase.		
			a)	S-phase	b)	G1-phase		
			C)	G2-phase	d)	M-phase		
		v)	Mit	osis not occurs in				
				Roots	b)	Shoots		
			c)	Germ cells	dì	Somatic coll		

	vi) is known as co a) Cell-wall			
	c) Nucleus	b d) Plasma membrane) None of these	
	vii) The process by whic the body to other by a) Mitosis	may of the	us cells spread from one part of e blood or lymph called	
	c) Both a & b	b) d)	Meiosis	
,	riii) are known as a) Nucleus c) Ribosomes	power ho b) d)	Mitochondria	
b) A	nswer in one sentence a			
i)				6
ii			toplasmic membrane?	
lii				
iv				
v)	What is mean by cell o	livision?		
vi)	What is mean by Karyo	okinesis?		
vii) What is peculiar identit	ty of anim	al cell?	
vii	i) What is mean by hypot	onic solut	tion?	
De	fine / Explain / comment	any six.	12	
a)	Prokaryotic cell	b)	Diffusion	
c)	Endocytosis	d)	G2-phase	
e)	Cell aging	f)	Endoplasmic reticulum	
g)	Plasma membrane	h)	Meiosis	
i)	Interphase			

2.

3.	Attempt any four from following.					
	i) Explain Danielli-Davson model.					
	ii) Nucleolus					
	iii) Golgi complex					
	iv) Ribosomes.					
	v) Metaphase					
	vi) Carcinogenesis					
4.	Attempt any three from following.	12				
	i) Describe structure of Archaebacteria.					
	ii) Biological Importance of osmosis.					
	iii) Structure and function of mitochondria					
	iv) Describe Eukaryotic cell.	*				
	v) Sketch and label cell cycle.					
5.	Describe in detail any two.	12				
	 Describe ultrastructure and functions of lysosomes. 					
	ii) Explain apoptosis or programmed cell death.					
	iii) Describe structure and functions of Ribosomes.					

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