





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

P.	Pages	:	3
		1.71	-

Time: Two Hours

Max. Marks: 60

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Do not write anything on question paper except Seat No.

- Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
- 3. Students should note, no supplement will be provided.
- 4. Figures to right indicate full marks.
- 5. Draw neat labelled diagrams wherever necessary.

1. a	a) Mu	Itiple choice questions att	empt any si	х.				
	i)	i)is the structural and functional unit of body.						
	3.5	a) Tissue	b)	Organ				
		c) Cell	d)	None.				
	ii)	Lipid bilayer is						
		a) Hydrophilic						
		b) Hydrophobic						
		c) Hydrophilic & hydro	phobic					
		d) Depends on the sur		dium.				
	iii)	The plasma membrane	is					
		a) Permeable	b)	Selectively permeable.				
		c) Impermeable.	d)	Semipermeable.				
	iv)	is the power house	e of the cell.					
		a) Ribosomes	b)	Liposomes				
		c) Mitochondria	d)	Golgi				
	v)	Granular structure found	ith ER are					
	*	a) Ribosomes	b)	Lysosomes				
		c) Desmosomes	d)	Kinetosomes				

	vi)	Mit	osis not occurs in					
		a)	Roots	b)		Shoots		
		c)	Germ cells	d)	,	Somatic cells.		
		In cell -cycle phase is known as synthetic phase.						
	vii)	a) S-phase D) G1-phase						
		c)	G ₂ -Phase	d)	١	л-phase.		
	viii)	The process by which cancerous cells spread from one part of body to other by way of blood or lymph called.						
		a)	Mitosis	b)	1	neiosis		
		c)		d)	1	netastasis.		
b)	Ans	swe	r in one sentence an	y six.			6	
	i)	W	ho was first used the	term cell.				
	ii)	Fı	- particles.					
	iii)	ii) Who introduced the term "mitochondria".						
	iv)	С	isternae are found in					
	v)	T	he division of cytopla	sm is called.				
	vi)		/hat is apoptosis.					
,	vii) T	he tumour developed onnective tissue is	d by abnorma	ıl g	rowth of cells and surrounded by		
	vii	i) A	rchaebacteria					
	D	efin	e / Explain / commen	t any six.			12	
	a)	F	Prokaryotic cell	b))	Endocytosis		
	c)	1	Nucleus	d))	Endoplasmic reticulum		
	е) (Cell cycle	f)		G ₂ - Phase		
	g) (Cell aging	h)	Necrosis		
	i)		Suicide bag.					

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3.	Atte	empt any four.	
	a)	Sketch & label eukaryotic cell.	
	b)	Functions of ribosomes	
	c)	Significance of mitosis.	
	d)	Biology of cancer.	
	e)	Osmosis	
	f)	Meiosis.	
4.	Atte	empt any three.	12
	i)	Functions of ER.	
	ii)	Regulation of cell-cycle.	
	iii)	Sketch & label mitochondria.	
	iv)	Explain Danielli-Davson model.	
	V)	Write names of cancers according to the tissues from which they arise.	
5.	De	scribe in detail any two.	12
	a)	Explain Structure and function of Golgi apparatus.	
	b)	Describe cellular theories of aging.	
	c)	Explain apoptosis or programmed cell death.	