Seat No.



क्रय - 040

BOTANY PAPER - II (NEW) (11146) BOT-112  Cell Biology											
P. Pag	es:2			a station part of the same							
Time :	Two H	ours	in the	Max. Marks: 40							
	Inst	ructions to Candidates :									
	1.	<ol> <li>Do not write anything on question paper except Seat No.</li> </ol>									
	2.	Answersheet should be written with blue ink only. Graph or diagram should									
		be drawn with the same pen being used for writing paper or black HB									
		pencil.									
		Students should note, no supplement will be provided.  All questions are compulsory.									
	4. 5.										
	0.	Draw fleat labeled diagram when									
1.	Sol	Solve any eight.									
	a)	What is the function of the cell wa	11?								
		i) Support and protects the cell	ii)	Stores water and mineral ions							
		iii) Controls the cell	iv)	Controls what enters and leaves the cell							
	b)	What is cell feature is responsible	e for p	powering the cell ?							
		i) Endoplasmic reticulum	ii)								
		iii) Mitochondria	iv)	Lysosome.							
	c)	What is one major feature that pla	ant ce	ell have that animal cells do not?							
		i) Lysosome	ii)	Cell wall							
		iii) Cell membrane	iv)	Mitochondria.							
	d)	What is another term for cytoplas	m div	vision?							
		i) cytokinesis	ii)	Karyokinesis							
		iii) Protoplasm	iv)	Protokinesis.							
	e)	Chiasmata formation takes place	in								
		i) Mitosis	- ii)	Meiosis							
		iii) Interphase	iv)	None of these.							
	f)	The plasma membrane is									
		i) Permeable	ii)	Selectively permeable							
		iii) Impermeable	iv)	Semipermeable.							

Fluid mosaic model of plasma - membrane was proposed by .........
i) Danielli and Davson ii) Singer and Nicolson iii) Both i and ii iv) Neither i and ii. g)

iii) Both i and ii

		h) is cell division in which the diploid number is reduced by one half (haploid) for the formation of gametes.							
				napiolo) for the formation Meiosis	on or g	ii)	Mitosis		
				Photosynthesis		iv)	Evolution		
		i)	Select the correct statement about G <sub>1</sub> phase.  i) Cell is metabolicaly inactive  ii) DNA in the cell does not replicate  iii) It is not a phase of synthesis of macromolecules  iv) Cell stops growing.						
		j)	i)	n does crossing over or During prophase - I At the centromere	ccur?	ii) iv)	During fertilization During prophase II.		
2.	Solve any four.								
		a) Why mitochondria can be considered the power houses of the							
	120	b)		is plasma membrane	?				
				is mitosis?					
		d) What is cell cycle? e) What is the chemical composition of cell wall?							
		f)		are cytoplasmic inclus			emicrosofta, acceptance of the Co		
3.		Solve any two.  a) Enlist the differences between meiosis and mitosis.  b) What is the difference between plasma membrane and cell wall?							
		b)		nents on interphase in					
4.	A) Solve any two.							6	
		i) Describe structure of cell wall.  ii) What is the chemical composition of the plasma membrane.  iii) What are chloroplast ? What are the main function of chloroplast ?							
	B)	Enlist the stages of cell cycle?							
5.		Describe with the help of well labelled diagram the structure of plant cell.							
					OR		Andreas or prospection in the con-		
		Describe with the help of well labelled diagram the structure of Mitochondria? What are its main functions.							
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