



	BOTANY PAPER - II : BOT - 112 Cell Biology (11146)						
P. Page	s : 3		Cell Biology (11146)  Max. Marks: 40  Indidates: e anything on question paper except Seat No. eet should be written with blue ink only. Graph or mould be drawn with the same pen being used for er or black HB pencil. hould note, no supplement will be provided. In are compulsory. In the right indicate full marks. In diagrams wherever necessary.  In wall is mainly composed of Ins ii) Chitin iv) Carbohydrates  Present only in plant cells. Embrane ii) amitosis plasts iv) nucleus				
Time: 1	ا ow	Cell Biology (11146)  burs Max. Marks : 40  mons to Candidates: no not write anything on question paper except Seat No. Inswer sheet should be written with blue ink only. Graph or iagram should be drawn with the same pen being used for writing paper or black HB pencil. It questions are compulsory. igures to the right indicate full marks. If any eight of the followings.  Fungal cell wall is mainly composed of  I Vitamins  II) Chitin  III) Fats  IV) Carbohydrates   IS present only in plant cells.  In mitosis  IN uncleus  In mitosis  IN uncleus  In mitosis  IN uncleus  Lysosomes are known as  III) Nucleosomes  III Ribosomes					
Ins	struc	tions to Candidates :					
		diagram should be di	rawn with t				
	3			ment will be provided.			
	6.	Draw neat diagrams w	herever ne	cessary.			
1.	Solve any eight of the followings.						
	a)	Fungal cell wall is ma	inly compo	sed of			
		i) Vitamins					
		iii) Fats	iv)	Carbohydrates			
	b)	is present on	ly in plant	cells.			
		i) cell membrane		·			
		iii) chloroplasts	iv)	nucleus			
	c) In mitosis number of cells are formed.						
		i) one	ii)	two			
		iii) three	iv)	four			
	d)	Lysosomes are know	n as				
		i) Nucleosomes	ii)	그 마이 사람들이 뭐 하는 것으로 가지 않는 그 것 같아.			
		iii) Suicide bags	iv)	None of these			
	an 1986						

e)	Cell Biology deals with the	study	of			
	i) Nucleus	ii)	cell			
	iii) plastids	iv)	chromosome			
f)	The nucleus was first time	obser	ved by			
	i) Robert Hook	ii)	Bauer			
	iii) Robert Brown	iv)	Virchow			
g	Which of the following is a part of Bacterial cell.					
Ŭ.	i) Nucleus	ii)				
	iii) pili	iv)	Nucleolus			
h	) Who proposed the fluid-mo	saicı	model of cell membrane.			
	i) Nageli & Cramer	ii)	Singer & Nicolson			
	iii) Schleiden & Schwann	įv)	Robert Brown & F. Bauer			
i)	Sub-metacentric chromoso shaped.	me is	generally looking like			
	i) V	ii)				
	· (ii)	iv)				
j)	The terminal part of chrom	osom	e is called			
•	i) Satellite	ii)				
	iii) Centromere	iv)	none of these			
Δ	attempt <b>any four</b> of the following	ings.				
1	) Define protoplasm.					
2	What is meiosis ?					
3	Enlist the components of eukaryotic nucleus.					
4	What is the function of vacuole ?					
5	What is middle lamella ?					
6	Give the types of Lysosomes.					
	Solve <b>any two</b> of the following					
		What are the functions of Ribosomes ?				
	1) What are the functions of	izinos	JUNIUU I			

3.

2.

- 2) What are plastids? Give different with their functions.
- 3) Give important differences between prokaryotic & Eukaryotic cells.
- 4. a) Attempt any two.

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- i) Describe the types of chromosomes based on position of centromere.
- ii) What is cell cycle? Describe its various phases.
- iii) Give the significance of mitosis.
- b) What is primary cellwall.

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5. Describe the types, morphology and ultrastructure of Endoplasmic Reticulum.

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OR

Describe the Singer and Nicolson's model of plasma membrane.

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