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Seat	Sat	D
No.	Set	<u> </u>

B.Sc. (Semester - I) (Old) (CBCS) Examination Oct/Nov-2019 Entrepreneurship Industrial Biotechnology (Paper - I) CELL BIOLOGY

			CELL BIOL	_	
			urday, 16-11-2019 To 05:30 PM		Max. Marks: 70
Instru	uction	2)	All questions are compulsory. Figures to the right indicate full n Draw neat labeled diagrams whe		
Q.1	Fill in 1)		blanks by choosing correct alto is 'mainly' found in Nucleus and cytoplasm Lysosome	b)	_
	2)	Durii a)	ng meiosis chiasmata are observe Pachytene Leptotene	ed at	•
	3)		programmed cell death of a cell is Apoptosis Cancer		o known as Osmosis Mitosis
	4)		aryotic genetic system has DNA but no histones Neither DNA nor histones	,	Both DNA and histones Either DNA or histones
	5)	Mito a) c)		b) d)	Robert Brown Altmann
	6)	a) c)	_ helps in protein synthesis. Ribosomes Mitochondria	b) d)	Nucleus Endoplasmic reticulum
	7)	DNA a) c)	replication occurs in S phase G2 phase	b) d)	G phase M phase
	8)	Cell a) b) c) d)	sap is a Living content of the cell Non living content of the vacuole Non-living content of the protopla Living content of the cytoplasm		
	9)	,	Cell wall of plants mainly contain Starch Cellulose	b) d)	 Lipids Glucose
	10)	Vesi	cles that fuse to form a cell plate the Golgi apparatus None of these	,	

	11)	The type of cell division that occurs in Germ cell is				
		a) Meiosis b) Mitosis c) Equal d) Endocytosis				
	12)	Tightly packed form of DNA is called a) supercoiling b) compressed state c) euchromatin d) heterochromatin				
	13)	Golgi bodies are related with a) Excretion b) Energy liberation c) Pinocytosis d) Secretion				
	14)	The is genetically an active chromatin with genes. a) Heterochromatin b) Euchromatin c) Plasmid d) Chromosome arm				
Q.2	 A) Answer the following questions. (Any Four) 1) Define Apoptosis and explain in short how programmed cell death occurs. 2) Draw a neat and labeled diagram of Mitochondria. 3) Explain functions of heterochromatin and Euchromatin. 4) Define Pinocytosis with suitable example. 5) Define Active transport and give a suitable example of it. 					
	B)	 Answer the following questions. (Any Two) 1) Enlist functions of Lysosome. 2) Enlist in detail, characteristics of Eukaryotic cell. 3) Describe in brief about Ribosomes. 	06			
Q.3	A)	Answer the following questions. (Any Two) 1) Explain Structure and functions of DNA. 2) Add a note on lipid bilayer membrane. 3) Define Phagocytosis with suitable example.	08			
	B)	 Answer the following questions. (Any One) 1) Explain the Ultra structure and types of cell membrane. 2) Add a note on Biochemical composition of cell. 	06			
Q.4	A)	Answer the following questions. (Any Two) 1) Write a detail account on Endoplasmic Reticulum. 2) Describe Meiosis in detail. 3) Add a detailed note cell differentiation.	10			
	B)	 Answer the following questions. (Any One) 1) Define Chromosome and Explain types of chromosomes based on centromere. 2) Write a detail note on Lysosome. 	04			
Q.5	Ans a) b) c)	wer the following questions. (Any Two) Explain structure and function of Golgi complex. Describe Mitosis in detail and add a note on its significance. Explain Cell theory and add a note on Significant event in Cell Biology.	14			