Total No. of Printed Pages: 2

## SUBJECT CODE NO:- B-2041 FACULTY OF SCIENCE & TECHNOLOGY

B.Sc. T.Y. (Sem-V)

Examination November/December- 2022 Botany Paper- XV

	(Cell Biology & Molecular Biology)	
[Tim	ne: 1:30 Hours]	[Max. Marks:50]
	Please check whether you have got the right question paper.	C. C. C.
N.B	<ul><li>i) Attempt all questions-</li><li>ii) Draw neat and well-labelled diagrams wherever necessary.</li></ul>	5180811 381815
Q.1	Describe in details structure and functions of nucleus.	20
	OR OR	
	Describe in details double helical structure of DNA.	
Q.2	What is Giant chromosome? Write in detail polytene and Lampbrush chromosome.	20
	ST ST ST ST ST ST ST ST	510
	Write short notes on (Any four)	
, O	a) Lysosomes	
	b) Prokaryotic cell	
	c) Cell cycle	
	d) Cytokinesis	
	e) Heterochromatin	
	f) Trisomy	
22		
Q.3	Multiple choice questions	10
	1) Following is an example of prokaryotic organism	
	a) E. coli b) Chara c) China rose d) Cycas	
	2) Golgie bodies are made up of	
	a) cisternae b) thylakoids c) quantasome d) chromatin	

				ENERAL STREET		3-2		
3)	Th	e space betwee	n nuclear membranes i	s known as				
	a)	Intercellular s	pace b) Nuclear pore	e c) Perinuclear spac	e d) Lamella			
4)	is a preparatory phase in cell division							
	a)	Prophase	b) Interphase	c) Anaphase	d) Pachytene			
5)	Subunit of 80 s ribosomes are							
	a)	60 S + 40 S	b) 50 S + 30 S	c) 100 S	d) 80 S + 20 S			
6)	Anticodons are present on							
	a)	M-RNA	b) t-RNA	c) r-RNA	d) all the above			
7)	2n-	+2 condition is	known as					
	a)	Trisomy	b) Monosomy	c) Nullisomy	d) Tetrasomy			
8)	Centromere is located at end of chromosome in							
	a)	Metacentric	b) Submetacentri	ic c) Acrocenta	ic d) Telocentric			
9)	If t	If the cell has a 2n-2 genomic formula, then this condition is known as						
Se S	a)	Monosomic	b) Nullisomic	c) Trisomy	d) Tetrasomy			
10)	In .		two non-homologus cl	nromosomes exchange	their segments			
	a)	Duplication	b) Deletion	c) Translocation	d) Inversion			