This question paper contains 3 printed pages]

Y-101-2019

FACULTY OF SCIENCE

B.Sc. (First Year) (First Semester) (Backlog) EXAMINATION NOVEMBER/DECEMBER, 2019

(CBCS Pattern)

BOTANY

Paper II (CCB-I)

(Cell and Molecular Biology)

(MCQ & Theory)

(Thursday, 19-12-2019)					ime : 10.00 a.m. to 12.00 noon	
Time—2 Hours				0000 XXXX	Maximum Marks—40	
N.B.	:	(i)	Attempt all questions			
		(ii)	All questions carry ed	qual marks.		
		(iii)	Draw well labelled di	agrams wher	ever necessary.	
		93 5A		MCQ		
1.	Ch	oose co	orrect answer of the fo	llowing questi	ons: 10	
	(i) 1		prokaryotic cell, genet	ic material is	:	
300	V 200	(a)	Nucleoid	(b)	Centrosome	
		(c)	Nucleolus	(d)	Cytoplasm	
	(ii)	Th	e main controlling cen	tre of the cell	is:	
		(a)	Nucleolus	(b)	Nucleus	
XL ALA	3,00	(c)	Lysosomes	(d)	Ribosomes	
337	(iii	Th	e lamp brush chromo	somes occur	red in the oocytes of which	
		sta	ige:			
28 B	186	(a)	Leptotene	<i>(b)</i>	Zygotene	
	333	(c)	Pachytene	(d)	Diplotene	

P.T.O.

WT			Y-101-2019				
		Theory					
2.	Desci	ribe ultrastructure and functions of Nucleus.	10				
		Or Or					
	Describe in brief:						
	(a)	80 'S' ribosomes.	5				
	(<i>b</i>)	classical concept of gene.	5				
3.	3. What is Mitosis? Describe the process of mitosis in detail.						
		Or					
	Descr	ribe in brief:					
	(a)	Pachytene Stage	5				
	(<i>b</i>)	Alkaptonuria	5				
4.	What are Nucleic acids? Describe the structure and functions of RNA.10						
	Desci	ribe in brief:					
	(a)	Nucleoside and Nucleotide	5				
	(b)	5					