BOTANY PAPER-B

(Cell Biology)

<u>Lee</u>			The Hours	194 (41)		Maximum Marks: 68	
Cin	1e Allow	ed :	Three Hours	Aine in	all (
	Note:	(i)	Attempt five	questions in	an. v	Q. No. 1 is compulsory and	
			select one que		ach (Jnit.	
	1. (A) I	Mult	tiple Choice Qu	iestions:	maA	1 :- 40 then its basic number	
	(i)	Ch	romosome nun	nber of a hexa	apio	d is 48 then its basic number	
		is:		of the mount	100	Contraction of the second	
		(a)	8	115 7 5 7 5	(b)	16	
		• •	11	at an Re	(d)	32 Hadanaell Id	
		(c)	age connecting	meiosis I and	l me	iosis II is:	
	(ii)			inclusion -	(b)	Interphase II	
		(a)				Anaphase I	
		(c)		PERSONAL P	(a)	Anaphase	
	(iii)	En	ergy currency	of a cell is:		maricher 1	
	The state of	(a)	M 19 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15	• HOUSE HER		ATP	
		• •		Miner a out	(d)	NAD	
	_	(c)	bunits of 80 s F	Pibosomes ar		The second secon	
3	(iv)		120 14	(1003011162 01	(b)	60 s	
		(a)			(d)	None of the above	
	0	(c)	60 s	2274 - Jan		A CALLERY OF SHIP	
	(v)	DNA differs from RNA in having: (b) Adenine					
		(a)			(q)	Guanine	
X		(c)	Uracil		(d)	Guannie	

ala s	(vi)	Haploid set of chromosome is called:						
	* * *	(a) Nucleus (b) Genome						
att de	等於	(c) Gene (d) All the above						
(B)	Fill i	in the Blanks:						
	(i)	Metacentric chromosomes appearshaped in	anaphase,					
	(ii)	A nucleotide consists of sugar, phosphate and a						
	(iii)	is the phenomenon of having more than to	wo sets of					
8	£	chromosomes or genomes.						
	(iv)	v)proposed one gene one enzyme hypothesis.						
	(v)	The pairing of non homologous chromosome is termed	d as					
1	(vi)	Nucleus was discovered byin 1831.	12×1=12					
		UNIT-I	ν .					
= 1	2.	Explain:						
ر. ۽ ني		(a) Fluid Mosaic Model of cell membrane	4					
,	•	(b) Types of Plastids.	. 2					
. ii -	3.	Write:						
		(a) Functions of Endoplasmic reticulum or Golgi appa	aratus 3					
		(b) Structure of Mitochondrion.	.3					
30	Vite N	UNIT-II						
110	y 4.	Write notes on:	Was 7					
		(a) Polytene Chromosomes	3					
		(b) Types of Aneuploids.	3					
no Bus	-5.	What are chromosomal alterations? Discuss ty	-					
4		significance of Deletions or Inversions.	6					
	-	UNIT-III						
	6.	Describe the process of DNA replication.	6					
14,	7.	Write notes on:						
	.11.	(a) Prophase I of Meiosis	3					
C	**	(b) Nucleosome.	3					
		UNIT-IV	alees-					
7	8.	Explain only diagrammatically an operon model in Pro	okaryotes					
		for regulation of gene activity.	6					
	9.	Write notes on any two:						
		(a) Genetic Code						
	\-	(b) Transcription	3,3					
	7.00	(c) Wobble Hypothesis	٦,٥					