(i) P	rinte	d Pag	es:3		R	oll No		******		••••		
(ii) Q	uesti	ons	: 9		Sub.	Code:	0	0	5	3		
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Time Allowed: Three Hours]						[Maxii	num	Ma	rks :	36		
	eacl Fill	in the 60s of production A check by _	ion. Attention. Attention in At	empt of the control of Ribonamino lical s	osome acids i	pt only OVE quest contains s formed e of D.N	durii	in to	num	nber		
(B)	Mar	k the The (i) (ii) (iii)	correct nuceous Prophas Metaph Anapha Telopha	answers disingular answerse and answerse and answerse answerse answerse and answerse answerse and answerse answerse and answerse answerse answerse answerse and answerse answerse answerse and answerse answerse and and answerse and answerse and	er:							

	(f)	According to Radial loop model, the scaffold proteins					
		hold					
		(i)	Nucleosomes				
		(ii)	DNA-histone loops				
		(iii)	Centromere				
		(iv)	None of the above				
	(g)	The	common DNA is:				
		(i)	L DNA				
		(ii)	M DNA				
		(iii)	B DNA				
		(iv)	None				
	(h)	The	synaptonemal complex is formed durin	ng:			
		(i)	Leptotene				
		(ii)	Zygotene				
		(iii)	Pachytene				
		(iv)	Diplotene	$8 \times 1 = 8$			
			SECTION—I				
es	cribe	with	the help of diagrams the structure and	functions			
fE	ndop	olasmi	ic reticulum.	7			
/ri	te sh	ort no	otes on the following:				
1)	Str	ucture	e of primary cell wall.				
0)	Str	ucture	e of nuclear pore.	$3.5 \times 2 = 7$			

SECTION—II

- 4. 'Give a brief account of the following:—
 - (a) Lampbrush chromosomes.
 - (b) Results of paracentric inversions at anaphase. Explain.

3,4

What is Aneuploidy? Explain its various types with suitable examples.

SECTION—III

- 6. Describe the process of prophase I with the help of diagrams and mention its significance.
- 7. Give a brief account of the following:
 - (a) Solenoid model.
 - (b) Semiconservative mode of DNA Replication.

3,4

SECTION—IV

- 8. Write short notes on the following:—
 - (a) Concept of Gene
 - (b) One gene one enzyme hypothesis and its significance. 3,4
- 9. How the expression of a gene is regulated in Prokaryotes?Describe the Lac Operon.