## **Intermediate Part Second**

Roll No.

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**BIOLOGY** 

(Subjective)

GROUP - II

Time: 02:40 Hours

Marks: 68 101156510000000

## SECTION - I

		SECTION -1	
2	. Writ	e short answers to any EIGHT parts.	16
	(i)	Define excretophore and anhydrobiosis.	
	(ii)	Define panting with an example.	
	(iii)	Compare osmoregulation in marine fishes and fresh water fishes.	
	(i <b>v</b> )	Define moulting. Give the hormone involved.	
	(v)	Give the structural composition of synovial joint.	
	(vi)	What is osteomalacia and cleft palate?	
	(vii)	Give the mechanism of invitro fertilization.	
	(viii)	Define parthenocarpy and seed dormancy.	
	(ix)	Give the layering feature of grassland.	
	(x)	Write scientific names of any two animals of temperate deciduous forest.	
	(xi)	Define greenhouse effect. Give its causes	
	(xii)	Define deforestation and afforestation.	
3.	Writ	teshort answers to any EIGHT parts.	16
	(i)	Write any four junctions of cytokinins.	
	(ii)	Differentiate between photoreceptors and thermoreceptors.	
	(iii)	write a note on Parkinson's disease.	
	(iv)	Differentiate between genotype and phenotype.	
	$(\mathbf{v})$	what do you understand by independent assortment of alleles?	
	(vi)	write a note on codominance.	
	(vii)	what are palindromic sequences?	
	(viii)	what is a nectar in biotechnology? Give its role.	
	(ix)	What is gene pharming?	
	(x)	Efferentiate between ecosystem and biosphere.	
	(xi)	I fine food chain and food web.	
	(xii)	Year is denitrification?	
4.	Wri	tehort answers to any SIX parts.	12
	(i)	Ifferentiate between primary and secondary growth.	
	(ii)	L'fine teratology.	
	(iii)	Vite the function of DNA polymerase III.	
	(iv)	Viat is meant by karyotype?	
	(v)	Cre the structure of typical nucleotide.	
	(vi)	Ferentiate between benign tumor and malignant tumor.	
	(vii)	Viat is tetrad?	
	(viii)	Ste theory of special creation.	
	(ix)	Yat are vestigial organs?	
		SECTION - II Attempt any THREE questions. Each question carries 08 marks.	
5	(2) 11	The material adoptations in plants to law and high temperature	04
J.	Section 19	Ta note on adaptations in plants to low and high temperature.	
	(D) V	V <sub>L</sub> is predation? Write significance of predation.	04
6.	(a) V	Thare turgor movements? Describe their types.	04
		Sibe the replication process of DNA.	04
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7.	(a) V	V hare neurons? Explain their different types with the help of diagrams.	04
		acid rains Describe their adverse effects	04

8. (a) Wria note on test tube babies and identical twins.

9. (a) Díss any four factors affecting gene frequency.

(b) Wra note on regeneration.

(b) Dei and explain multiple alleles with the help of example.