Roll No <u>feetistic property in the filled in by the candidate</u> )		
(Academic Sessions 2015 - 2017 to 2017 - 2019)		
BIOLO		ours
PAPER	L-II (Essay Type) GROUP-II Maximum Marks: 68	
SECTION - I		
2. Write short answers to any EIGHT (8) questions:		
(i)	Differentiate between ectotherms and endotherms.	
(ii)	Why the leaves are said to be excretophore?	
	Differentiate between protonephridia and metanephridia.	
0.0	Write two characteristics of collenchyma tissue.	
(v)	Define phototactic movements with example.	
	How callus is formed?	
2001 1400 000 000 1700	What are palindromic sequences?	
	Compare ex-vivo and in-vivo gene therapy.  Write two adaptations for terrestrial ecosystem.	
	Differentiate between alpine and boreal forests.	
	What is the importance of ozone layer?	
	Differentiate between deforestation and reforestation.	
1000 P. San 1777	ite short answers to any EIGHT (8) questions:	16
	Write down two uses of auxins.	
1 /	How communication across the synapse occurs?	
	Define habituation. Give one example.	
	Write down the mechanism of pollen tube evolution in spermatophytes.	
	What do you know about diploid parthenogenesis?	
	What is oestrous cycle?	
	Define gene and allele.	
	Differentiate/autosomes and sex-chromosomes.	
1.5	What is a multifactorial trait? Give an example.	
	Define the term ecosystem.	
	What is the difference between ectoparasite and endoparasite?	
(xii)	Define grazing. What is the result of over grazing?	
4. Wr	ite short answers to any SIX (6) questions :	12
(i)	What is the difference between primary and secondary growth?	
(ii)	What is discoidal cleavage?	
43.000.000.000	What is mitotic apparatus?	
	Differentiate between necrosis and apoptosis.	
	What are analogous organs? Give an example.	
	What is the difference between template strand and sense strand?	
	What is point mutation? Give an example.	
(1X)	What is membrane invagination hypothesis?	
SECTION – II		
Note:	as the above the first of the f	19
	Describe adaptations for thermoregulation in plants.	4
(b)	Describe nitrogen cycle in detail.	4
6. (a)	Describe sliding filament model of muscle contraction.	4
(b)	Describe the process of translation in prokaryotes.	4
7. (a)	Differentiate between instinctive and learning behaviour.	4
(b)		4
8. (a)	Write a note on vernalisation.	4
*****	Define and explain test cross.	4
	Write a comprehensive note on aging.	4
	Give evidences in support of evolution from comparative embryology and	
(0)	molecular biology	2,2
	229-219-II-(Essay Type)-12500	100