Roll N BIOLO PAPEI		
2 11/	rite short answers to any EIGHT (8) questions :	
	Define specific heat capacity of water. What is the value of specific heat of vaporization of water?	
(ii)	Define enzyme. What is the function of binding site of the enzyme?	
	Distinguish between reversible and irreversible inhibitors of enzymes.	
	How the low and high temperatures respectively effect an enzyme activity?	
(v)	Name soil dwelling carnivorous fungus. How does it feed on soil nematodes?	
(vi)	Define bioremediation. What is the role of lichens during ecological succession? Why annelids and arthropods are considered having same origin?	
	What is the economic importance of mollusca?	
	Differentiate the ostia and osculum.	
	Define regeneration. Name the phylum in which regeneration is common:	
(xi)		
()	millimeter of leaf surface also.	
(xii)	Differentiate the external and cellular respiration.	
3. Wi	ite short answers to any EIGHT (8) questions:	
(i)	What is biological control? Write one example.	
(ii)	Differentiate terms biotechnology and molecular biology.	
(iii)	Give chemical composition of primary and secondary cell wall.	
(iv)	Write down two salient features of cell theory.	
(v)	What are trichonymphas?	
(vi)	Give important features of red algae (any two).	
(vii)	What is the role of pellicle in ciliates? How chalk was and is formed by foraminiferans?	
(viii) (ix)	What is respiratory distress syndrome?	
(x)	Write down two properties of respiratory surfaces in animals.	
	Differentiate terms imbibition and guttation.	
(xii)	What is incipient plasmolysis?	
, ,	ite short answers to any SIX (6) questions :	
(i)	Differentiate the capsids and capsomeres.	
(ii)	Compare nucleus with nucleoid.	
(iii)	Name two living genera of Psilopsida.	
(iv)	How would you compare microphylls and megaphylls?	
(v)	What is prothallus? Give an example.	
(vi)	What do you know about an embryo sac?	
(vii)	What are deficiency symptoms of potassium and nitrogen in plants?	
(viii)	How the predator-prey interaction helps in maintaining ecosystem stable?	
(ix)	What is the difference between carnivores and omnivores?	
<b>N</b> Y	SECTION – II	
Note:	• •	
	What is biological organization, explain it at organ and system level.  Describe respiration in birds.	
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o. (a)	Give first two levels of protein organization.  Discuss different methods of asexual reproduction in fungi.	
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7. (a)	Differentiate the prokaryotic and eukaryotic cells.	4
	Write detailed note on digestion in cockroach.	
	Discuss four viral diseases.	
` '	Describe lymphatic system.	
9. (a)	Describe different methods of nutrition in bacteria.	1
(b)	Describe Z-scheme of non-cyclic phosphorylation.  133-224-II-(Essay Type)-20500	
	133-224-11-(Essay Type)-20800	