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N. C Jindal Public School

Assignment-Biology

Ecology

Class XII

1.	In a pond there were 40 lotus plants. After a year the number increase	ased to	
	56. Calculate birth rate of a lotus plant.	1	
2.	Why pyramid of energy can never be inverted?	1	
3.	Why do cattle avoid browsing on Calotropis plants?	1	
4.	What is Allen's rule?	1	
5.	Lichen is considered a good example of obligate mutualism. Explain.	1	
6.	Distinguish between primary productivity and secondary productivity	2	
7.	Write the differences between the seral stage and the climax communi	ty	
	during succession.	2	
8.	What measures can be adopted in surroundings to decrease the noise		
	pollution?	2	
9.	What are the advantages of 'Ecosan'?	2	
10. Giving two reasons explain why there is more species biodiversity in			
	tropical latitudes than in temperate ones.	2	
11. Mention the major cause of air pollution in metro cities. Write any th			
	ways by which it can be reduced.	2	
12	.Name the four functional aspects of an ecosystem.		
13	.What steps have been taken by the Government to reduce pollution in	Delhi	
14	.What is the condition to dispose off the radioactive waste?	3	
15	.Describe the process of succession on a bare rock.	3	
16. What function do detritivores play in an ecosystem? Explain the significa			
	of humification and mineralization in a decomposition cycle.	3	

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17. How do organisms like fungi, zooplanktons and bears overco	me the		
temporary short-lived climatic stressful conditions? Explain.	3		
18.Explain the type of interaction in each of the following:	3		
a. Clown fish living among tentacles of sea anemone.			
b. Smaller barnacles disappeared when Balanus dominated in the	coast		
of Scotland.			
c. Wasp pollinating fig inflorescence.			
19.Describe the specific adaptation of xerophytes with respect to root system,			
stem and leaves.	3		
20.(a) Explain with the help of diagram logistic growth model of population.			
(b) How do animals suspend the unfavourable conditions?	(3+2)		
21. Why herbivores are considered similar to predators in the ecological context			
Explain.	5		
22.Differentiate between the following interspecific interactions in a			
population:	5		
(i) Mutualism and competition			
(ii) Commensalism and Amensalism			
23. Trace the succession of plants on a dry bare rock.	5		
24. How does phosphorus cycle differ from carbon cycle?			
25.Describe the exponential growth model of a population with curve.	5		