

SENIOR SECTION DEPARTMENT OF BIOLOGY CLASS XII

ECOSYSTEM WORKSHEET- 14

1	What does the base tier of the ecological pyramid represent?	1
2	In the North East region of India, during the process of jhum cultivation, forests are cleared by burning and left for regrowth after a year of cultivation. How would you explain the regrowth of forest in ecological term?	1
3	Climax stage is achieved quickly in secondary succession as compared to primary succession. Why?	1
4	Why are oceans least productive?	1
5	Organisms at a higher trophic level have less energy available. Comment.	2
6	What are the shortcomings of ecological pyramids in the study of ecosystem?	2
7	How do you distinguish between humification and mineralisation?	2
8	List three parameters used for constructing ecological pyramids. Describe any one instance where the pyramid may look inverted.	2
9	Differentiate between a detritivore and a decomposer giving an example of each.	2
10	Construct an ideal pyramid of energy when 1,00,000 joules of sunlight is available. Label all its trophic levels.	2
11	Construct a pyramid of biomass starting with phytoplanktons. Label 3 trophic levels. Is the pyramid upright or inverted? Why?	2
12	Explain with the help of two examples how the pyramid of number and the pyramid of biomass can look inverted.	3
13	Justify the given statements: a) Energy flow in an ecosystem is unidirectionalb) Secondary succession is faster than primary succession	
14	What will happen to an ecosystem if: a) All producers are removed b) All organisms of herbivore level are eliminated c) All top carnivore population is removed	