

Class: XIIth Subject: BIOLOGY

Date: DPP No.:3

Topic :- Ecosystem

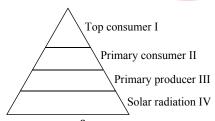
- 1. The organisms, which attack dead animals are
 - a) First link of the food chain and are known as primary producers
 - b) Second link the food chain and are herbivorous
 - c) Third link of the food chain and are tertiary consumers
 - d) Present at the end of food chain and are detrivores
- 2. Pyramid of energy in aquatic ecosystem is
 - a) Always upright
- b) Always inverted
- c) Bell-shaped
- d) None of these

- 3. Consider the following statements about ecological pyramids
 - I. Charles Elton developed the concept of ecological pyramid
 - II. After the name these pyramids are also called as Eltonian pyramids
 - III. It is a graphical represe<mark>ntation or pyram</mark>id shaped diagram which depicts the number of organisms, biomass and energy at each trophic level

Which of the statements given above are correct?

- a) I and II
- b) I and III
- c) II and III
- d) I, II and III

4.



I. 10 kcal/m²/yr

II. $100 \text{ kcal/m}^2/\text{yr}$

III. $1000 \text{ kcal/m}^2/\text{yr}$ IV. $100000 \text{ kcal/m}^2/\text{yr}$

Refer to the above diagram of energy pyramid. The ecological efficiency at primary consumer level, in comparison to that at secondary consumer level, is

a) Same

b) More

c) Less

- d) Cannot be ascertained from the data
- 5. Which of the following pyramid of numbers in ecology is not upright?
 - a) Pond ecosystem
- b) Desert ecosystem
- c) Tree ecosystem
- d) Forest ecosystem

6. A lion that eats a zebra that ate grass is a

	a) Primary producerc) Secondary consumer		•	b) Primary consumerd) Quaternary consumer		
7.	Pyramids of biomass in po a) Inverted b) Upright c) Linear d) Irregular	ond ecosystem is				
8.	The process of which humus is degraded by some mia) Mineralization c) Photophosphorylation		ne microbes to release inorg b) Humification d) Pollination	b) Humification		
9.	The process of mineralisation by microorganisms helps in the release of a) Inorganic nutrients from humus b) Both organic and inorganic nutrients from detritus c) Organic nutrients from humus d) Inorganic nutrients from detritus and formation of humus					
10.	Which of the following pla a) Heliophytes	ints develop character b) Sciophytes	s of xerophytes? c) Hydrophytes	d) Halophytes		
11.	Which one of the following statements is correct for secondary succession? a) It occurs on a deforested site b) It follows primary succession c) It is similar to primary succession except that it has a relatively fast pace d) It begins on a bare rock					
12.	Phytoplanktons are found in which of the following zones?					
	a) Limnetic zonec) Littoral zone		b) Secondary consum d) Aphotic zone	ners		
13.	The role of a cow in a food a) Primary consumer	l chain is b) Heterotroph	c) Herbivores	d) All of these		
14.	Which of the following are the essential sources for releasing CO ₂ in the atmosphere? I. Burning of wood II. Volcanic activity III. Combustion of organic matter IV. Fossil fuels Choose the correct option a) I, II and III b) II, III and IV c) I, III and IV d) I, II, III and IV					

15.	Source of energy in an eco a) Sun	osystem is b) ATP	c) Sugar made by plant	d) Green plant		
16.	Consider the following statements about limitations of ecological pyramids I. It never takes into account the same species belonging to two or more trophic levels II. It assumes a simple food chain, which never exists in nature III. In split of the vital role played by saprophytes/decomposers, they are not given any position in ecological pyramids Which of the statements given above are correct?					
	a) I and II	b) I and III	c) II and III	d) I, II and III		
	Which of the following always has a pyramidal shape a) Pyramids of number c) Both (a) and (b)		e, that is, decreasing values at higher trophic levels? b) Pyramids of biomass d) Pyramids of energy			
18.	Identify the plant belonging to the reed-swamp stage in hydrarch succession					
	a) <i>Juncus</i>	b) <i>Sagittaria</i>	c) <i>Salix</i>	d) <i>Trapa</i>		
19.	Secondary productivity is a) The rate of formation o b) Greater than primary p c) 5% less than primary p d) Equal to the gross prim	f <mark>new</mark> organ <mark>ic mat</mark> ter by co r <mark>oduct</mark> ivity productivity	onsumers			
20.	Extinction of a species in a food chain is compensated by					
	a) Food chain	b) Ecological pyramid	c) Food web	d) None of these		