

Topic :-Ecosystem

- The changes that occur in successive seral stages to reach a climax community are
I. changes in the diversity of species of organisms
II. increase in the number of species and organisms
III. increase in the total biomass
Choose the correct option
a) I and II b) I and III c) II and III d) I, II and III
- Which one of the following is a gaseous cycle?
a) Sulphur cycle b) Phosphorus cycle c) Nitrogen cycle d) All of these
- Which of the following statements are correct?
I. Least productive ecosystems are deserts and deep lakes
II. Sugarcane is the most productive crop
III. Most productive ecosystem is coral reef
Choose the correct option
a) I and II b) I and III c) II and III d) I, II and III
- Pyramid of energy in ecosystem is
a) Always upright b) Always inverted c) Mostly upright d) Mostly inverted
- A plant is
a) An autotroph b) A heterotroph c) A primary producer d) Both (a) and (c)
- Ecosystem having the highest primary productivity is
a) Pond b) Ocean c) Desert d) Forest
- The Great Barrier Reef along the east coast of Australia can be categorized as
a) Population b) Community c) Ecosystem d) Biome
- A much smaller fraction of energy flows in a terrestrial ecosystem through
a) Grazing food chain b) Detritus food chain
c) Complex food chain d) Food web aquatic ecosystem
- ...A... is required for higher primary productivity. ...B... have the lowest primary productivity as the soil is

deficient in moisture.

Choose the correct option for A and B

- a) A-Rain; B-desert b) A-Heat; B-forest c) A-Rain; B-forest d) A-Forest; B-desert
10. Driving force of any ecosystem is
a) Organic fuels and carbohydrates b) Biomass
c) Solar energy d) Decomposers
11. Climax community is
a) Stable b) Self perpetuating
c) Final biotic community d) All of these
12. Stratification occurs in
a) Desert b) Tropical forest c) Deciduous forest d) Tundra
13. Plant species having a wide range of genetical distribution evolve into a local population known as
a) Ecotype b) Biome c) Ecosystem d) Population
14. Regarding 10% law
I. This law was put forward by Lindeman in 1942
II. According to this law, during the transfer of food energy from one trophic level to the other, only about 10% is stored at higher trophic level and the remaining 90% is lost in respiration, decomposition and waste in the form of heat
Which of the statements given above is/are correct?
a) Only I b) Only II c) I and II d) None of these
15. Ecological succession is a
a) Long term process b) Very fast process c) Short term process d) Migration
16. At which latitude, heat gain through insolation approximately equals heat loss through terrestrial radiation?
a) 66° North and South b) $22\frac{1}{2}^\circ$ North and South
c) 40° North and South d) $42\frac{1}{2}^\circ$ North and South
17. Rabbits eat grass and other plants to survive, but they do not eat animals. Refer the best category for rabbits?
a) Decomposers b) Carnivores c) Producers d) Herbivores
18. If we completely remove the decomposers from an ecosystem, its functioning will be adversely affected because
a) Herbivores will not receive solar energy b) Mineral movement will be blocked
c) The rate of decomposition will be very high d) Energy flow will be blocked

19. To show how many organisms are present at each level of a food chain, ecologists use a model called
- a) An energy flow pyramid
 - b) Pyramid of numbers
 - c) Pyramid of energy
 - d) Food chain/food web pyramid
20. Competition for food, light and space is most severe between two
- a) Closely related species growing in different niches
 - b) Distantly related species growing different niches
 - c) Closely related species growing in same niches
 - d) Distantly related species growing in same niches

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