

Ecology

Class Test-1

No of Questions: 15

Time: 30 min

- 1. Consider the following statements regarding population pyramids in a given ecosystem**
 1. An urn shaped age pyramid is formed when the population of an organism shows rapid growth pattern
 2. The shape of the age pyramid will be bell shaped when the population of an organism shown declining patternChoose the correct answer from the options given below
 - a. 1 only
 - b. 2 only
 - c. Both 1 and 2
 - d. Neither 1 nor 2
- 2. Consider the following statements regarding factors affecting population growth in an ecosystem**
 1. The maximum number of individuals that can be produced by the female in an ideal condition is called absolute natality
 2. The maximum number of individuals that can be produced by the female in a normal ecological condition is called realized natalityChoose the correct answer from the options given below
 - a. 1 only
 - b. 2 only
 - c. Both 1 and 2
 - d. Neither 1 nor 2
- 3. Certain organisms produces few number of offsprings but have high probability of surviving in early and middle life but have rapid decline in number of individual surviving into late life. They have great parental care and take a convex curve or type-1 curve of the population survival ship curve. These organisms are termed as**
 - a. Iteroparous organisms
 - b. Semalparous organisms
 - c. Mamalparous organisms
 - d. Heteroparous organisms
- 4. Emigration is**
 - a. One-way movement of individuals into an established population
 - b. One-way movement of individuals out of a population to another area
 - c. Repeated movement into and out of an area
 - d. One-way movement of individuals out of an uninhabited area
- 5. Certain organisms are highly connected to the entire ecosystem and their loss results in the collapse of the entire ecosystems. These organisms are termed as**
 - a. Top species
 - b. Keystone species
 - c. Vital species
 - d. Limiting species

6. The tendency of increased number of species and also their density of the species of a community in an ecotone is termed as

- Ecosystem effect
- Biodiversity effect
- Edge effect
- Ecotone effect

7. With reference to ecological niche, consider the following statements

- Two species having partially overlapping niche cannot survive in a community and in that case, one of the species will be eliminated from the community
- In case of total overlap of the niche of two organisms, they enter the relationship of symbiosis and co exist benefitting each other

Choose the correct answer from the options given below

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

8. Consider the following statements

- Two different species in different communities but playing largely similar or same role are termed as ecological guild
- A group of species in the same community which utilize the same resource in the same manner are called ecological equivalents

Choose the correct answer from the options given below

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

9. Which of the following statements

- Lichens, grasses and trees are the members of pioneer community
- Kelps, Blue green algae and Diatoms are the members of producer community in marine food chain
- Termites, dung beetle and earthworms are the members of detritivorous community in detritus food chain

Choose the correct answer from the options given below

- 1 and 2 only
- 2 and 3 only
- 1 and 3 only
- 1, 2 and 3

10. When an area is burned in a forest fire, and then plants and animals begin to return to the burned area, this is called

- Primary Succession.
- Secondary Succession.
- Grassland succession
- Climax succession

11. "Soil low in nutrients due to leaching. Vegetation consists of wide expanses of grass with scattered trees which have fire adaptive characteristics. The forest development in such areas is generally kept in check by fire and grazing animals. The fauna includes herds of hoofed animals and large predators" This is the most likely description of

- Tropical rain forests biome
- Desert biome
- Chapparal biome
- Savanna biome

12. Which of the following are the factors causing threat to the biomes

- Deforestation
- Public policies
- Nuclear testing
- Tourism
- Oil exploration
- Urbanization
- Huge solar panel facilities

Choose the correct answer from the options given below

- 1,3,4,5,6 and 7 only
- 1,2, 3,4,5 and 6 only
- 1, 4, 5 and 6 only
- 1,3,5,6 and 7

13. With reference to the water on the planet Earth, consider the following statements

- The amount of water in the atmosphere is more than the amount of water in rivers
- The amount of water in groundwater is more than the amount of water in lakes

Which of the statements given above is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

14. Which of the following determines the diversity of a biome?

- Soil properties
- Latitude
- Wind
- Temperature
- Longitude
- Altitude
- Precipitation

Choose the correct answer from the options given below

- 2,3,4,5 and 7 only
- 1,2, 3,4,6 and 7 only
- 1, 2, 4 and 7 only
- 1,2,3,4,5,6 and 7

15. Consider the following statements regarding nitrogen fixation

1. Conversion of nitrites to nitrates is called as ammonification
2. Conversion of ammonium ions into nitrites is called nitrification
3. Release of soil nitrate into atmosphere is called mineralization
4. The absorption of nitrogen by plants is called assimilation

Choose the correct statement/s from the options given below

- a. 1 and 2 only
- b. 1 and 3 only
- c. 2 and 4 only
- d. 3 and 4 only



Answer Keys

Question	Answer key
1	d
2	c
3	a
4	b
5	b
6	c
7	d
8	d
9	b
10	b
11	d
12	a
13	c
14	b
15	c

YOUR SUCCESS OUR PRIORITY

RAO'S ACADEMY
for Competitive Exams
(A unit of RACE)