

Topic :- Organisms & Populations

- Asymptote stage of the population is the stage of population in which the population is
a) Changing b) Decreasing c) Increasing d) Stabilised
- Conformers are inactive in adverse conditions due to
a) Inability to move b) Inability to digest property
c) Inability to maintain homeostasis d) Ability to maintain homeostasis
- $$dN/dt = rN\left(\frac{K - N}{K}\right)$$

A – Population density at time t
B – Intrinsic rate of natural increase
C – Carrying capacity
Identify A, B and C from given equation
A B C

a) $N K r$ b) $N r K$ c) $K N r$ d) $K r N$
- A secondary compound are the part of the plants
a) Normal metabolism b) Secondary metabolism
c) Evolution d) Genetic difference
- The plants that grow on saline soils with high concentration of NaCl_2 , MgSO_4 and MgCl_2 are called
a) Succulents b) Mesophytes c) Xerophytes d) Halophytes
- Age structure of a population influences population growth because
a) Different ago group have different reproductive capabilities
b) Different age group have same reproductive capabilities
c) More young individual indicate decreasing population
d) All of the above
- Choose the wrong statements
I. Two species may not live in same habitat
II. The more dissimilar the niches of two species the stronger is their competition
III. Two species can occupy the same niche in geographical area
IV. No two species may occupy the same ecosystem

The correct option is

- a) I, II and III b) II, III and IV c) I, II, III and IV d) III and IV
8. For better survival of the human population, which of the following steps is most important?
a) Reduction in the use of various resources b) Afforestation
c) Conservation of wild life d) Ban on mining activity
9. Photosynthetic yield is maximum at the
a) Equator region b) Polar region c) Both (a) and (b) d) Arid region
10. No population of any species in nature has its disposal ...A... resources to permit exponential growth. This leads to competition between individuals for ...B... resources. Eventually, the ...C... individual will survive and reproduce.
Choose the correct option for A, B and C
a) A-limited, B-limited, C-fittest b) A-limited, B-unlimited, C-fittest
c) A-unlimited, B-limited, C-fittest d) A-unlimited, B-unlimited, C-fittest
11. Schimper's second law related to
a) Local distribution of plants
b) Geographical distribution of plants
c) Geographical distribution of animals
d) Geographical distribution of animals and plants
12. Which of the following statements regarding species interdependence are true?
I. An Association of two species where one is benefitted and other remains unaffected is called mutualism.
II. An interspecific association where both partners derive benefit from each other is called commensalism.
III. A direct food relation between two species of animals in which one animal kills and feeds on another is referred as predation.
IV. A relationship between two species of organisms where both are partners are benefitted from each other is called symbiosis.
a) I and II only b) III and IV only c) I and III only d) II and III only
13. Organisms which breed only once in their lifetime
a) Pacific salmon fish b) Bamboo c) Both (a) and (b) d) None of these
14. In a population, the condition at which the rate of addition of new members is more than the rate of individuals lost indicates
a) Zero population growth b) Exponential growth
c) Fluctuating growth d) Declining growth
15. In the absence of an external source of water, Kangaroo rat in North American desert is capable of meeting

- all its water requirements through
- a) Internal fat oxidation
 - b) Taking liquid food
 - c) Reducing his activities
 - d) Hibernation
16. Even a plant species, which makes its own food, cannot survive alone; it needs soil microbes to breakdown the ...A... matter in soil and return the ...B... nutrients for absorption. And then, how will the plant manage pollination without an animal agent? It is obvious that in nature, animals, plants and microbes cannot live in ...C... but interact in various ways to form a biological community
Choose the correct option for A, B and C
- a) A-inorganic, B-organic, C-isolation
 - b) A-organic, B-inorganic, C-isolation
 - c) A-organic, B-inorganic, C-community
 - d) A-inorganic, B-organic, C-community
17. The growth of a population without limit at its maximal rate and also that, rates of immigration and emigration are equal, then it is called
- a) Carrying capacity
 - b) Biotic potential
 - c) Positive growth
 - d) Negative growth
18. Which of the following characters explain the bell-shaped curve?
- a) The number of pre-reproductive individual equal to the number of reproductive individual
 - b) Past reproductive individual are comparatively few
 - c) Growth is zero
 - d) All of the above
19. Carrying capacity is the capacity of
- a) Habitat that has resources to sustain certain number of individuals
 - b) Population to reproduce and competitiveness
 - c) Population to reproduce
 - d) Individuals to fit among the natural environment
20. In which regions of the world are hot deserts located?
- a) Equator and Tropic of cancer
 - b) Equator and tropic of Capricorn
 - c) Polar region
 - d) Tropic of cancer and Tropic of Capricorn