

Topic :- Organisms & Populations

- Population density of a population in a given habitat during a given period fluctuates due to change in
 - Natality and mortality
 - Immigration
 - Emigration
 - All of these
- Statements
 - Recent studies support competition as suggested in 'Gause's Competitive Exclusion Principle'
 - Gause's hypothesis says if two species compete for same resources then one will be eliminated by another species
 - More recent studies point out that species facing competition might evolve mechanisms that promote co-existence rather than exclusion
 - Gause's competitive exclusion principle is effective when resources are in excess
 - Unlimited resources give better opportunity for adaptationChoose the correct combination of statements
 - I, II and III
 - II, III and IV
 - III, IV and V
 - I, IV and V
- Different organism are adapted to their environment in terms of not only survival but also reproduction. This statement belongs to
 - Physiological ecology
 - Species ecology
 - Population ecology
 - All of these
- Which determines the flora and fauna of a place?
 - Weather
 - Climate
 - Both (a) and (b)
 - Habitat
- Eurythermals are the organism which
 - Can tolerate wide range of temperature
 - Can tolerate low range of temperature
 - Cannot tolerate low range of temperature
 - Cannot tolerate wide range of temperature
- Plants growing on sand and gravel are called
 - Eremophytes
 - Psammophytes
 - Psilophytes
 - Oxylophytes
- In aquatic environment the types of benthic animals are determined by
 - Type of water
 - Type of sediment characteristics
 - Light availability
 - Nutrient availability
- The growth rate of a population stabilizes after

- a) Logarithmic phase
c) Carrying capacity
- b) Stationary phase
d) Negative acceleration phase
9. Why exotic species become invasive sometime and starts spreading fast because of
a) Natural predators
b) Abundant natural competitor
c) Invaded land does not have its natural predators
d) Mutation in their genome
10. In commensalism
a) Both partners are harmed
b) Weaker partner is benefitted
c) Both partners are benefitted
d) None of the partners is benefitted
11. Bell-shaped age pyramid indicates that
a) Number of pre-reproductive and reproductive individual is almost equal
b) Post-reproductive individuals are comparatively fewer
c) The population size remains stable
d) All of the above
12. There are two optional ways of exploitation. One way is parasitism. Which is the other one?
a) Antibiosis
b) Competition
c) Predation
d) Commensalism
13. Population size of Siberian cranes at Bharatpur wetlands in any year is
a) 1000
b) <10
c) >100
d) = 1000
14. Prickly pear cactus species introduced into Australia in
a) 1920
b) 1930
c) 1925
d) 1929
15. Pattern of population results in a J-shaped curve obtained in
a) Logistic growth
b) Exponential growth
c) Sigmoid growth
d) All of these
16. If non-limiting conditions are provided then what will happen?
a) Natality increases and mortality decreases
b) mortality decreases
c) Natality increases
d) Mortality increases
17. In which one of the following habitats does the diurnal temperature of soil surface vary most?
a) Shrub land
b) Forest
c) Desert
d) Grassland
18. Ectothermic animals are also called
a) Poikilothermal
b) Cold-blooded
c) Both (a) and (b)
d) Isothermic
19. Highest level of biological hierarchy in the given options is
a) Biome
b) Ecosystem
c) Individual
d) Species

20. Character displacement take place when there is

a) Geographic displacement

c) Geographic non-overlapping

b) Geographic overlapping

d) Habitat displacement

PE