

Class : XIIth
Date :

Subject : BIOLOGY
DPP No. : 5

Topic :- Organisms & Populations

- Genetic drift operates in
 - Small isolated population
 - Large isolated population
 - Fast reproductive population
 - Slow reproductive population
- Which of the following is not true for a species?
 - Members of a species can interbreed
 - Variations occur among members of a species
 - Each species is reproductively isolated from every other species
 - Gene flow does not occur between the populations of a species
- Zero growth means
 - Natality balance mortality
 - Natality is more than mortality
 - Natality is less than mortality
 - Natality is zero
- Ecological age groups of a population are
 - pre-reproductive
 - reproductive
 - post-reproductive
 - old-age group
 - adolescent age group
 - infertile age groupChoose the correct option for given statements
 - I, II and III
 - III, IV and V
 - IV, V and VI
 - I, V and VI
- Sigmoid growth curve is represented by
 - $dN/dt = rN$
 - $dN/dt = rN(1 - N/K)$
 - $Nt = N_0 + B + I - D - K$
 - $dN/dt = 1 - N/K$
- In which one of the following pairs is the specific characteristic of soil not correctly matched?
 - Laterite - Contains aluminium compound
 - Terra - Most suitable for roses
 - Chernozems - Richest soil in the world
 - Black Soil - Rich in calcium carbonate
- All aquatic vertebrates and most molluscs and cry fishes are
 - Thermoconformers
 - Osmoconformers
 - Oxyregulators
 - All of these

8. Average temperature of thermal springs and deep sea hydrothermal vents exceeds
 a) 50°C b) 60°C c) 70°C d) 100°C
9. In the oceans, the environment is perpetually dark at
 a) More than 100 m b) More than 500 m c) Less than 100 m d) Less than 500 m
10. Regulators are the their animals which
 a) Does not maintain their body homeostasis b) Can maintains their body homeostasis
 c) Can regulate their heart beat d) Can regulate their circulation
11. Population A-Have the intrinsic rate of natural increase is 0.2
 Population B-Have the intrinsic rate of natural increase is 0.3
 Population C-Have the intrinsic rate of natural increase is 0.4
 Population D-Have the intrinsic rate of natural increase is 0.5
 Which population will increase fastest among all of the given population?
 a) D b) C c) B d) A
12. Humus is present in
 a) Horizon-A b) Horizon-O c) Horizon-B d) Horizon-C
13. Ecosystem components includes
 a) Biotic b) Abiotic c) Both (a) and (b) d) Species
14. Monarch butterflies are highly distasteful to predator due to
 a) Its ugly look b) A special chemical present in his body
 c) Both (a) and (b) d) A poison secreted by their special glands
15. Species living in a restricted geographical area is
 a) Sympatric b) Allopatric c) Sibling d) Keystone
16. Pneumatophores have lenticels for
 a) Excretion b) Gaseous exchange c) Reproduction d) All of these
17. Temperature gradient over earth surface is
 a) 6.4 to 6.5°C per 1000 m altitude b) 6.4 to 6.5°C per 1000 m latitude
 c) 7.5 to 9.5°C per 1000 m latitude d) 7.5 to 9.5°C per 1000 m altitude
18. Abiotic factors affects the
 I. Structure of organisms
 II. Physiology of organisms
 III. Behaviour of organisms
 a) I and II b) II and III c) I, II and III d) I and III

19. Which one of the following is a matching pair of certain organism(s) and the kind of association?
- a) Shark and sucker fish - Commensalism
 - b) Red algae and fungi in lichens - Mutualism
 - c) Orchids growing on trees - Parasitism
 - d) *Cuscuta* (dodder) growing on other flowering plants - Epiphysis
20. Nature and properties of soil in different places vary due to
- a) Climate
 - b) Weathering process
 - c) Topography
 - d) All of these

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