



INDIAN SCHOOL NIZWA - WORKSHEET

BIOLOGY

CH-13 ORGNISMS AND ENVIRONMENT

Name: _____

Date: _____

Class: XII-A

- 1 Answer the following
 - i) Identify the biome distribution with respect to annual temperature and precipitation .
 - ii) State the reasons for the formation of the major biomes.
2. What does the graph A,B and C represent with reference to organismic response to homeostasis.
3. Differentiate between
 - i) Eurythermal and stenothermal organisms
 - ii) Eurihaline and stenohaline
 - iii) Diapauses and suspension
 - iv) Commensalism and ammensalism
- 4 How does the shape of age pyramid reflect the growth status of a population ?
- 5 Different types of organisms have different types of reproductive strategies . Explain , why it is so?
- 6 Species facing competition might evolve mechanisms that promote co existence rather than exclusion . Justify the statement in light of Gause's competition exclusion principle , citing suitable examples
- 7 Mutulism often involves coevolution in Mutulists. Explain the phenomenon taking the example of mutualistic relationship between wasp and fig tree.
- 8 Draw and explain a logistic curve for a population of density (N) at a time (t)whose intrinsic rate of natural increase is (r)and carrying capacity (k)
- 9 Why are herbivores considered similar to predators in the ecological context ?Explain
- 10 "Analysis of age pyramids for human population can provide importance for long term planning strategies " explain
- 11 What is population density ? explain any three different ways the population density can be measured , with the help of an example each
- 12 What is altitude sickness ? how is it caused ? what are the symptoms ?how does human body try to overcome altitude sickness?
- 13 Explain coevolution with reference to parasites and their hosts. Mention any 4 adaptive special features evolved in parasites for their parasitic mode of life .
- 14 What is resource partitioning? Explain with an example .
- 15 Explain any two examples of mutualistic relationship where the organisms involved are commercially exploited in agriculture
- 16 Why do predators avoid eating monarch butterfly ? How does the butterfly develop this protective feature?
- 17 What is the reason behind the success of mammals according to the evolutionary biologists?
- 18 Why haven't the conformers evolved to become regulators even though it is more beneficial to maintain constant body temperature ?
- 19 Why do people living in high altitude have more RBC count ? `



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