- 1. How is diapause different from hibernation?
 - 2. If a marine fish is placed in a fresh water aquarlum, will the fish be able to survive? Why or why not?
 - 3. Define phenotypic adaptation. Give one example.
 - 4. Most living organisms cannot survive at temperature above 45° C. How are some microbes able to live in habitats with temperatures exceeding 100° C?
 - 5. List the attributes that populations but not individuals possess.
 - 6. If a population growing exponentially double in size in 3 years, what is the intrinsic rate of increase (r) of the population?
 - 7. Name important defence mechanisms in plants against herbivory.
 - 8. An orchid plant is growing on the branch of mango tree. How do you describe this interaction between the orchid and the mango tree?
 - 9. What is the ecological principle behind the biological control method of managing with pest insects?
- 10. Distinguish between the following:
 - (a) Hibernation and Aestivation
 - (b) Ectotherms and Endotherms
- 11. Write a short note on
 - (a) Adaptations of desert plants and animals
 - (b) Adaptations of plants to water scarcity
 - (c) Behavioural adaptations in animals
 - (d) Importance of light to plants
 - (e) Effect of temperature or water scarcity and the adaptations of animals.
- 12. List the various abiotic environmental factors.
- 13. Give an example for:
 - (a) An endothermic animal
 - (b) An ectothermic animal
 - (c) An organism of benthic zone
- 14. Define population and community.
- 15. Define the following terms and give one example for each:
- (a) Commensalism
 - (b) Parasitism
 - (c) Camouflage
 - (d) Mutualism
 - (e) Interspecific competition
- 16. With the help of suitable diagram describe the logistic population growth curve.
- 17. Select the statement which explains best parasitism.
 - (a) One organism is benefited.
 - (b) Both the organisms are benefited.
 - (c) One organism is benefited, other is not affected.
 - (d) One organism is benefited, other is affected.
- 18. List any three important characteristics of a population and explain.