



BIOLOGY

BOOKS - BETTER CHOICE PUBLICATION

ORGANISMS AND POPULATIONS

Very Short Answer Type Questions

1. Why is sigmoid curve so called?



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2. What is the most significant adaptation of hydrophytes?



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3. What is an isometric growth?



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4. Fill in the blanks

organism which can tolerate wide range of

temperature are



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5. Name two common floating leaved, rooted hydrophytes.



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6. Differentiate Holoparasite and Semiparasite.



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7. Name two common sub-merged floating hydrophytes.



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8. Give terms for rapid population decline and rapid population growth.



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9. Name two organisms associated to form lichens.



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10. what are exotic species?



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11. What does J-shaped growth curve of a population indicate?



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12. Give two examples

mimicry



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13. Define Law of Tolerance.



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14. Discuss consequences of population explosion.



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15. What is zero population growth.



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16. Define the term-Adaptation?



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17. What is carrying capacity ?



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18. Which two countries have significantly decreased their birth rates?



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19. Define demography.



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20. What are benthic zones in Aquatic habitat?



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21. What is Littoral zones in Aquatic habitat?



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22. If a marine fish is placed in a fresh water aquarium, will the fish be able to survive ?

Why or why not ?



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23. Define an ecotype.



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24. Name a complete stem parasite
angiosperm



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25. What do you mean by biotic community?



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26. What is commensalism ?



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27. Give the term for the number of organisms per unit area.



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28. Define Ectotherm.



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29. Which interaction is possessed by termites and flagellates?



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30. Name two important factors which affect population size.



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31. Define Mimicry.



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Very Short Answer Type Questions Most Expected Questions

1. Define phenology.



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2. Define Phenotypic adaptations.



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3. Define homeostasis.



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4. Define Allen's Rule.



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5. State and explain Gause's Competitive exclusion principle.



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Short Answer Type Questions

1. What are critical habitats ? What is men's duty towards them?



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2. Define Littoral zone.



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3. Define the following terms

Planet



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4. Define the following terms :-

(a) Mimicry, (b) Acclimatization, (c) Ectotherms

(d) Endotherms.



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5. Briefly explain 'crude birth-rate' and 'crude death rate'.



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6. How can we control Population explosion?



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7. How are the plants adapted to water scarcity and heat? Comment.



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8. Define Population. What are the demographic factors, which control Population.



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9. What do you understand by Range of Tolerance and Soil texture.



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10. Distinguish between Immigration and Emigration.



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11. Explain about the aquatic adaptations in animals.



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12. What are adaptations ? Describe the various adaptations plants to aquatic environment.



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13. What is amensalism? How is it different from commensalism?



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14. Explain briefly the effect of environment on population.



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15. Define population. List two main characteristics of population.



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16. Define carrying capacity. Mention two causes for rapid growth of human population.



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17. What is dispersal? How does it effect the population size and population density?



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18. What is growth curve? Differentiate between S-shaped growth curve and J-shaped growth curve.



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19. Define biome. Name one terrestrial and one aquatic biome.



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20. Explain briefly about mutualism with one example.



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21. Write a short note on legume-Rhizobium symbiosis.



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22. Explain briefly about: Ecological niche



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23. Differentiate between Endothermic and Ecothermic animals. Give one example each.



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24. Differentiate between Heliophytes and Sciophytes. Give one example each.



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25. What is mutualism and predation



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26. Write any two differences between Natality and Mortality rate of population.



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27. What is carrying capacity? Mention two causes for rapid growth of human population.





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28. How are biotic potential, environmental resistance and carrying capacity related to population growth?



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29. Define the terms :-

(a) Carrying capacity, (b) Mortality rate, (c) Demography.



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30. "Environmental temperature is rising."

Comment on this statement.



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31. How do the plants adapt to water scarcity?



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32. How do plants adapt to Saline environments?



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33. Draw population growth curve and explain briefly.



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34. Describe the effect of light on physiology of plants.



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35. Discuss the effect of light on animals.



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36. Describe the effect of temperature on animals.



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37. Explain the terms :-

(a) Carrying Capacity, (b) Habitat, (c) Mimic.



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38. Explain the terms-

(a) Commensalism, (b) Population Explosion,

(c) Ecological niche.



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39. Explain the terms-

(a) Camouflage, (b) Parasitism, (c) Mutualism.



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40. Write six major characteristics of the desert biome.



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41. Define and give one example each of Competition, Parasitism.



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42. Define phenotypic adaptations. Give two differences between habitat and niche.



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Short Answer Type Questions Most Expected Questions

1. Define competition and explain competitive release with suitable example.



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2. Why is mutualism also known as co-evolution.



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3. What is Brood Parasitism ? Give one example of Brood Parasitism.



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4. Why do clown fish and sea anemone pair up? What is this relationship called?



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5. Explain parasitism. Also define Ectoparasite and Endoparasite.



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6. Describe the mutual relationship between fig tree and wasp and comment on the phenomenon that operates in their relationship.



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7. Explain various adaptations in Homeotherms and Poikilotherms.



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8. Give few adaptations of hydrophytes and aquatic animals.



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9. Distinguish between Camouflage and Mimicry.



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10. Explain the following terms: (i) Mimicry (ii) Acclimatisation.



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11. Explain the term Ectotherm and Endotherm.



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12. What is the difference between Hibernation and Aestivation ?



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13. Write a short note on migration in animals?



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14. What are succulents? How they are adapted to their environment ?



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15. How does temperature bring variation in the physical and chemical conditions of habitats?



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16. How do nature and properties of soil affect the organisms?



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17. What is high altitude sickness? Write its symptoms.



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18. What are predators ? Why some species got extinct when predators are removed?



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19. When, is an organism called a 'conformer'?

Explain with the help of an example.



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20. Define hibernation, aestivation and diapause.



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Long Answer Type Questions

1. What do you understand by the term 'Population explosion'? What are the causes of Population explosion in India?



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2. What are adaptations ? Describe the various adaptations plants to aquatic environment.



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3. Define population. Describe in brief the characteristics population.



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4. Explain the effect of light on growth and distribution of plants.



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5. Explain about the aquatic adaptations in animals.



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6. Discuss the adaptations for temperature variation in animals.



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7. What is parasitism ? How the parasites are different from predators ? Give at least four differences.



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8. What is biotic community? How it is different from Genus? Give at least four differences.



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9. (a) Define and give one example of each-
Competition, Parasitism.

(b) List any three important characteristics of
population.



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10. What do you mean by interspecific interactions?

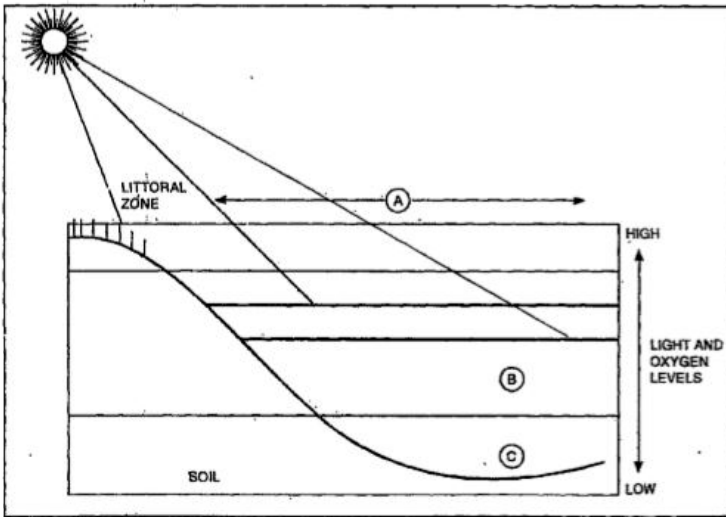
(b) Briefly explain the predation and parasitism types of interactions with examples.



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Long Answer Type Questions Most Expected Questions

1. The figure shows zones in the lake.



- (i) Label the three zones of the lake A, B and C.
- (ii) List the gradients which determine zones in the lake from water surface to bottom of lake.

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2. Discuss soil as an abiotic factor.



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3. Explain how tolerance to environmental factors determines distribution of species.



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4. How does age distribution help in study of population.



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5. What is migration? How migration is a strategy of adaptation in animals?



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6. How do organisms cope with the different abiotic factors? Explain.



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7. Explain competitive release and Gause's competitive exclusion principle.



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