



BIOLOGY

BOOKS - PREMIERS PUBLISHERS

ORGANISMS AND POPULATION

Textbook Questions Answers

1. All populations in a given physical area are defined as

A. Biome

B. Ecosystem

C. Territory

D. Biotic factors

Answer: A



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2. Organisms which can survive a wide range of temperature are called

A. Ectotherms

B. Eurytherms

C. Endotherms

D. Stenotherms

Answer: B



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3. The interaction in nature, where one gets benefit on the expense of other is..... .

A. Predation

B. Mutualism

C. Amensalism

D. Commensalism

Answer: D



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4. Predation and parasitism are which type of interaction ?

A. (+ , +)

B. (+ , 0)

C. (- , -)

D. (+ , -)

Answer: D



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5. Competition between species leads to

A. Extinction

B. Mutation

C. Amensalism

D. Symbiosis

Answer: A



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6. Which of the following is an r-species ?

A. Human

B. Insects

C. Rhinoceros

D. Whale

Answer: B



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7. The relationship between sucker fish and shark is

A. Competition

B. Commensalism

C. Predation

D. Parasitism,

Answer: B



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8. Which of the following is correct for r-selected species?

A. Large number of progeny with small size

B. Large number of progeny with large size

C. small number of progeny with small size

D. small number of progeny with large size

Answer: A



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9. Animals that can move from fresh water to sea called as

A. Stenothermal

B. Eurythermal

C. Catadromous

D. Anadromous

Answer: C



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10. Some organisms are able to maintain homeostasis by physical means

A. Conform

B. Regulate

C. Migrate

D. Suspend

Answer: C



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11. What is a Habitat ?



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12. Define ecological niche.



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13. What is acclimatization?



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14. What is pedogenesis ?



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15. What is zero Stress ?



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16. What is soil permeability ?



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17. Differentiate between Eurytherms and Stenotherms.



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18. Explain hibernation and aestivation with examples.



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19. Give the diagnostic characters features of a Biome ?



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20. Classify the aquatic biomes of Earth.



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21. What are the ways by which organisms respond to abiotic factors ?



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22. Classify the adaptive traits found in organisms.



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23. Differentiate Netality and Mortally.



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24. Differentiate J and S shaped curve.



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25. Give an account of population regulation.



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26. What is ecological density, crude density and population density ?



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27. Give an account of the properties of soil.



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28. Differentiate between Tundra and Taiga Biomes





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29. List the adaptations seen in terrestrial animals.



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30. Describe Population Age Distribution.



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31. Describe Growth Models/Curves.



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**Other Important Questions Answers | Choose
The Correct Answers**

1. Ethology is the scientific study of :

A. animal reproduction

B. plant reproduction

C. animal behaviour

D. plant response to light

Answer: C



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2. Arrangement of body muscles in the form of bundles help in :

A. metabolism

B. locomotion

C. hunting

D. predation

Answer: B



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3. In pond ecosystem, the column feeder is :

A. catla

B. mrigal

C. common carp

D. rohu

Answer: D



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4. Tundra herbivores include :

A. Arctic hare

B. Snowy owl

C. Arctic fox

D. Bob cat

Answer: A



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5. Choose the odd one out :

A. Light

B. Temperature

C. Water

D. Soil microbes

Answer: D



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6. Identify the odd one :

A. Polar bear

B. Elephant

C. Gaur

D. Antelope

Answer: A



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7. Find out the odd one :

A. Trachea

B. Gills

C. Air bladder

D. Lungs

Answer: C



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8. Choose the odd one :

A. Population density

B. Ecological density

C. Crude density

D. Fecundity

Answer: D



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9. Assertion : In tropical forest, the soil nutrient - poor and acidic.

Reason : Decomposition is rapid and soils are subject to heavy leaching.

A. Both Assertion and Reason are correct,

Reason is the correct explanation of Assertion.

B. Both Assertion and Reason are correct,

Reason is not the correct explanation of Assertion.

C. Assertion is wrong, Reason is correct.

D. Assertion is correct Reason is Wrong.

Answer: A



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10. Assertion : Grassland biome often are characterized by high winds.

Reason : Dense tree cover is not present in Grassland biome.

A. Both Assertion and Reason are correct,
Reason is the correct explanation of
Assertion.

B. Both Assertion and Reason are correct,
Reason is not the correct explanation of
Assertion.

C. Assertion is wrong, Reason is correct.

D. Assertion is correct Reason is Wrong.

Answer: A



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11. Assertion : Clay soil has high water retention capacity due to high porosity.

Reason : The pore space between soil particles are more in clay soil.

A. Both Assertion and Reason are correct,

Reason is the correct explanation of Assertion.

B. Both Assertion and Reason are correct,

Reason is not the correct explanation of

Assertion.

C. Assertion is wrong, Reason is correct.

D. Both Assertion and Reason are wrong.

Answer: D



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12. Assertion : In aquatic media, maintaining homeostasis and osmotic balance is a challenge.

Reason : Marine animals have appropriate adaptations to prevent cell shrinkage.

A. Both Assertion and Reason are correct, Reason is the correct explanation of Assertion.

B. Both Assertion and Reason are correct, Reason is not the correct explanation of Assertion.

C. Assertion is wrong, Reason is correct.

D. Assertion is correct Reason is Wrong.

Answer: B



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13. Choose the correct statement :

A. Light does not influence reproduction.

B. Light does not influence growth of an organism.

C. Light influence pigmentation

D. None of the above

Answer: C



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14. Find out the incorrect statement :

- A. Water holding capacity of soil is directly depend on soil porosity
- B. Water holding capacity of soil is inversely depend on soil porosity.

C. Soil permeability is directly depend on pore size.

D. None of the above

Answer: A



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15. Choose the correct statement :

A. Tundra biomes have long summers and short winters.

B. Tundra biomes have long winters and short summers.

C. Tundra biomes have little day light in summer and long day light in winter.

D. None of the above

Answer: B



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16. Which of the following statement is not correct ?

A. In aquatic animals, respiration is by gills.

B. Presence of air bladders filled with air helps buoyancy.

C. In fish, pectoral fins and dorsal fins act as balancers.

D. None of the above statement is correct.

Answer: D



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Other Important Questions Answers li Answer The Following

1. What is an Ecosphere?



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2. Name the abiotic factors of an environment.



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3. Define 'niche'.



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4. State Van't Hoff's rule.



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5. What is phototaxis ?



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6. What is meant by porosity of the soil?



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7. Name any two plants present in hot deserts.



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8. What is meant by cold deserts ?



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9. Define population.



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10. Explain population dispersion.



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11. What is meant by relative abundance ?



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12. Mention the factors, that regulate a population.



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**Other Important Questions Answers Iii Answer
The Following**

1. Distinguish between anadromous migration and catadromous migration.



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2. What is structure adaptation ? Give one example.



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3. List out the adaptations of desert animals.



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4. What is relative humidity?



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5. Point out the major functions of soil.



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6. What is photokinesis ?



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**Other Important Questions Answers Iv Answer
The Following**

1. Given an account of adaptations of animals in response to temperature.



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2. Draw and label the graphical representation of types of organisms based on temperature tolerance.



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3. List the adaptations of aquatic animals.



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4. Give an account of the role of migration in a population.



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