



BIOLOGY

BOOKS - BHARATI BHAWAN BIOLOGY (HINGLISH)

DIVERSITY IN THE LIVING WORLD

Pick The Correct Option

1. The two superkingdoms created on the basis of cell structure are

A. Monera and protista

B. prokaryota and Eukaryota

C. Plantae and animalia

D. protista and Nonprotista

Answer: B



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2. A plant body which is not differentiated into stem,

A. thallus

B. mycelium

C. frond

D. substratum

Answer: A



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3. which of the following are vascular plants.

A. Mosses

B. Liverworts

C. Hornworts

D. Ferns

Answer: D



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4. Gymnosperms are

A. nonvascular plants

B. seedless plants

C. plants which bear naked seeds

D. flowering plants

Answer: C



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5. Give an example of filamentous green alga



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6. The mode of nutrition among fungi is

A. only saprotrophic

B. saprotrophic or parasitic

C. only parasitic

D. saprotrophic, parasitic or mutualistic

Answer: D



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7. Which were the last to appear in the course of plant evolution?

A. Vascular plants

B. seedless plants

C. Flowering plants

D. seed-bearing plants

Answer: D



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8. Which of the following produce flowere?

A. Angiosperms

B. fungi

C. Mosses

D. Ferns

Answer: A



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9. bacteria were considered to be plants

because they

A. have rigid cell wall

B. cannot move

C. can multiply by fission

D. are present everywhere

Answer: A



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10. Bacteria lack

A. endoplasmic reticulum

B. DNA

C. cell wall

D. cytoplasm

Answer: A



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11. The main difference between Gram positive and Gram -negative bacteria remains in the composition of

A. cilia

B. cell wall

C. nucleolus

D. cytoplasm

Answer: B



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12. Gram staining is a

A. a stain produced out of gra

- B. a staining technique developed by the danish scientist christians Gram
- C. a trade mark
- D. a stain obtained from a chemical called gram

Answer: B



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13. Bacteria do not possess

A. membrane-bound organelles

B. nucleus

C. nucleolus

D. all of these

Answer: D



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14. The mode of nutrition in bacteria is

A. autotrophic

B. heterotrophic

C. autotrophic and heterotrophic

D. none of these

Answer: C



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15. The slimy material secreted by bacteria is called

A. fimbriae

B. capsule

C. flagella

D. crystal violet

Answer: B



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16. In which of the following, the cells are not organized into tissues?

A. Cnidarians

B. Sponges

C. Flatworms

D. Roundworms

Answer: B



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17. Flame cells form the excretory system in

A. Flatworms

B. earthworms

C. insects

D. rcrabs

Answer: A



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18. Which of the following does not have a poison apparatus?

A. Scorpion

B. Centipede

C. Spider

D. Crab

Answer: D



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19. Arthropods use different organs for respiration. Which of the following correctly lists the organs with the organisms which use them?

A. Gills (insects), book lungs (prawns),
tracheal system (spiders)

B. Gills (scorpions) book lungs
(prawns) tracheal system (spiders)

C. Gills (crustaceans), tracheal system
(insects), book lungs (spiders)

D. Gills (crustaceans), tracheal system
(millipedes), book lungs (insects)

Answer: C



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20. Which of the following are diploblastic?

A. Cnidarians

B. Flatworms

C. Roundworms

D. Earthworms

Answer: A



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21. The excretory system in annelids consists of coiled tubes called

- A. flame cells
- B. metanephridia
- C. nephridia
- D. protonephridia

Answer: B



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22. The organs which spiders use for spinning webs are called

A. spiracles

B. spicules

C. spinneretes

D. carapaces

Answer: C



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23. Annelids are

A. Flatworms

B. roundworms

C. 6-lagged invertebrates

D. segmented worms

Answer: D



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Fill In The Blanks

1. The gell-forming substance called agar is extracted from ___ algae.



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2. The club-shaped structures bearing spores in mushrooms are called ___



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3. _____ are symbiotic associations of fungi and algae.



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4. _____ proposed the binomial system of nomenclature.



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5. The roots system in monocotyledons is called_____



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6. The laeves of dicotyledons have ___venation.



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7. The largest phylum of the kingdom Animalia is ___.



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8. Nematoblasts, or stinging cells, are characteristic of _____.



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9. The water vascular system is found among _____



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10. The endoskeleton of sharks is _____



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11. Birds and _____ are warm -blooded vertebrates.



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12. The _____ is a rasping tongue-like organ used by molluscs for feeding.





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Mark The Statements True T Of False F

1. Mosses have a vascular system.



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2. Ferns are seedless plants.



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3. fungi reproduce only asexually.



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4. Hornworts and liverworts are pteridophytes.



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5. conifers are angiosperms.



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6. Animals store carbohydrate as glycogen.



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7. Sponges have a nervous system.



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8. The gills of sharks are covered by an operculum.

A. the skeleton of sponges is formed of spicules.

B.

C.

D.

Answer: (F)



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9. The skeleton of sponges is formed of spicules



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10. Planaria are free living aquatic flatworms.



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Very Short Answer Questions

1. Which organisms are included in the kingdom Monera and which in the kingdom Protista?



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2. Which phylum do organisms of the genus Plasmodium belong to? Which disease is caused by them?



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3. Name the opening through which water leaves the body cavity of sponges. What is this body cavity called?



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4. What are hermaphrodited? Name such organisms.



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5. How many chambers do the hearts of fish, amphibians and mammals have?



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6. Arthropods have an open circulatory system in which the heart pumps haemolymph into a cavity what is this cavity called?



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7. The body of a mollusc is divided into three parts. Name these parts.



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Short Answer Questions

1. What is the binomial system of nomenclature? Explain with an example.



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2. To begin with all organisms were divided into two kingdoms. What are the main differences between the members of these two kingdoms?



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3. What are the different types of bacteria on the basis of their shapes?



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4. How do algae differ from fungi?



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5. Compare the characters of bryophyta with that of pteridophyta.



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6. Mention three basic difference between gymnosperms and angiosperms



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7. What do you understand by the terms bilateral symmetry and radial symmetry. Explain with one example in each case.



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8. What do you understand by metamorphosis? Explain with an example. Give one example of retrogressive metamorphosis.



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9. What does diploblastic mean ? Name an organism which is diploblastic.



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10. How do cnidarians catch prey and fight enemies?



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11. what do you understand by notochord?



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Long Answer Questions

1. What is taxonomy? How is it useful?



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2. What are the salient features of bacteria?





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3. Give the major differences between dicotyledons and monocotyledons.



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4. How do gymnosperms and angiosperms differ from each other?



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5. write about the water vascular system in echinoderms.



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6. Distinguish between cartilaginous fish and bony fish.



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7. Mention the characteristics of hemichordates.



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8. Write about the characteristic features of the members of the class Aves.



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9. Why are cnidarians called polymorphic? Explain with examples.



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10. What is the major characteristic of mammals ?



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