



BIOLOGY

BOOKS - ICSE

CLASSIFICATION OF THE LIVING WORLD

Exercises Fill In The Blanks

1. The basic/smallest unit of classification is



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2. The largest unit of classification is _____ .



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3. Write the scientific name of human being.



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4. In Whittaker system of classification, all prokaryotes were included in the kingdom :

(a) Monera

(b) Protista

(c) Fungi

(d) Mychota



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5. Name the locomotory organs of Amoeba.



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6. One of the major components of cell wall of most fungi is



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7. In the five kingdom classification, Chlamydomonas and Chlorella have been included in



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8. Organisms belonging to the phylum Porifera are called_____ .



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9. Polyp and are two forms of Phylum Cnidaria.



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10. All vertebrates are chordates but all chordates are not vertebrates. Justify the statement.



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Exercises Choose The Correct Option

1. Bacteria do not possess :

(a) cell wall

(b) ribosome

(c) mitochondria

(d) plasma membrane

A. chitin

B. cellulose

C. peptidoglycan

D. collagen

Answer:



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2. During multiple fission, Amoeba gets modified to form a

A. cyst

B. spore

C. cell wall

D. plasma membrane

Answer:



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3. The absorptive organs produced inside the host cell by parasitic fungal mycelia are called

.....

A. ferns

B. mosses

C. moulds

D. bacteria

Answer:



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4. Assertion: Mosses are of great ecological importance.

Reason: Mosses prevent soil erosion by forming dense mat on the soil

A. Monera

B. Protista

C. Fungi

D. Plantae

Answer:



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5. Liver flukes belong to the phylum

A. Platyhelminthes

B. Nematoda

C. Annelida

D. Mollusca

Answer:



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6. Tube feet are found in organisms belonging to the phylum

A. Porifera

B. Mollusca

C. Arthropoda

D. Echinodermata

Answer:



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7. Segmented worms belong to the phylum

A. Nematoda

B. Annelida

C. Platyhelminthes

D. Cnidaria

Answer:



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8. Radula is found in

A. Sponges

B. Cnidarians

C. Molluscs

D. Echinoderms

Answer:



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9. Frogs belong to the class

A. Amphibia

B. Aves

C. Mammalia

D. Reptilia

Answer:



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10. Animals which suckle their babies belong to the class

A. Amphibia

B. Aves

C. Mammalia

D. Pisces

Answer:



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Exercises True Or False

1. Plants are autotrophic. Can you think of some plants that are partially heterotrophic?



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2. Bacterial cell has a true nucleus. Is it true or false.



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3. [A] : Fungi are either saprobes or parasitic .

[R] : Fungi posses haustorium .



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4. First vertebrates originated during



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5. Cytoskeleton is made up of



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6. A genus is made of families.



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7. Molluscs have a closed vascular system.



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8. List three important distinguishing features of arthropods, reptiles and mammals.



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9. Food vacuoles are present in amoebas.



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10. Fungi reproduce by producing spores.



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Exercises Answer The Following

1. Describe the structural features of a bacterium. Categorise bacteria according to their shape.



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2. Describe the structural features of Amoeba.



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3. How do fungi differ from plants?



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4. Mention the different types of plants included in the kingdom Plantae.



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5. What are the different forms of algae?



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6. Distinguish between naked-seeded and closed-seeded plants.



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7. What are parasites? Name two parasitic organisms each from the phyla Platyhelminthes and Nematoda.



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8. What is a coelenteron?



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9. What are haemolymph and haemocoel?



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10. Which one of the following is characteristic of mammals only?



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Exercises Explain In Brief

1. How is classification helpful in the study of the living world?



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2. What is binomial system of naming organisms?



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3. In which ways are bacteria useful to our environment and us?



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4. What is the role of the pseudopodia in nutrition and locomotion in Amoeba?



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5. How does an encysted Amoeba reproduce on return of favourable conditions ?



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6. Describe the importance of mycorrhiza, cyanobacteria and bacteria as biofertilisers.



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7. Mention three useful and three harmful effects of fungi.



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8. Name the phyla into which invertebrates are divided. Give two characteristics and two examples of organisms belonging to each phylum.



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9. A distinguishing feature of cnidarians is the presence of



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10. What is the significance of tube feet in echinoderms?



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11. What do you understand by 'cold blooded'?

Write two characteristics each of three types of cold blooded vertebrates.



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12. What are the characteristic features of birds?



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