

# WORKSHEET

## CLASS-IX

### CHAPTER-4, Diversity in Living Organisms

#### A. Give reasons, why.

1. Birds have a streamlined body and skin is covered by feathers.
2. Angiosperms are the highest evolved among the plant kingdom.
3. Snake and turtle are kept in the same class.
4. The process of classification of organisms is based on certain characteristics.
5. Cockroach and spiders belong to the same phylum.

#### B. Match the columns.

- |                           |               |
|---------------------------|---------------|
| 1. Pore bearing animals   | Angiosperms   |
| 2. Diploblastic.          | Arthropoda    |
| 3. Metameric segmentation | Coelenterata  |
| 4. Jointed legs.          | Porifera      |
| 5. Soft-bodied animals    | Echinodermata |
| 6. Spiny-skinned animals. | Mollusca      |
| 7. Covered seed.          | Annelida      |

#### C. Give examples for the following.

1. Bilateral, dorsiventral symmetry found in \_\_\_\_\_.
2. Worms causing disease elephantiasis is. \_\_\_\_\_.
3. Open circulatory system, coelomic cavity filled with blood \_\_\_\_\_.
4. Pseudocoelom is found in \_\_\_\_\_.
5. Algae and fungi form symbiotic associations called \_\_\_\_\_.

#### D. Pick the correct option.

1. Which one is the most common character of the vertebrates?
  - a. Presence of notochord
  - b. Presence of triploblastic condition
  - c. Presence of gill pouches
  - d. Presence of coelom
2. Well-defined nucleus is absent in
  - a. blue-green algae
  - b. Diatoms
  - c. algae
  - d. yeast
3. Corals are
  - a. Poriferans attached to some solid support
  - b. Cnidarians that are solitary living
  - c. Poriferans present at the sea bed
  - d. Cnidarians that live in colonies

4. In taxonomy, family comes between
  - a. Class and order
  - b. Order and genus
  - c. Genus and species
  - d. Division and class
5. Who introduced the system of scientific nomenclature?
  - a. Robert Whittaker
  - b. Carolus Linnaeus
  - c. Robert Hooke
  - d. Ernst Haeckel
6. Agaricus is
  - a. Autotrophic
  - b. Heterotrophic
  - c. Saprophytic
  - d. parasitic
7. In bony fishes, gill slits are covered by a gill cover called
  - a. Clitellum
  - b. Air bladder
  - c. Fins
  - d. operculum
8. Mushroom produces spores from
  - a. Plants
  - b. Gills
  - c. Annulus
  - d. stipe
9. Most primitive vascular plants of land are
  - a. Algae
  - b. Pteridophytes
  - c. Gametophyte
  - d. bryophytes
10. Food of earthworm is
  - a. Small insects
  - b. Dead plants
  - c. Soil rich in humus
  - d. Dry soil

**E. Higher order thinking Skills.**

1. Shyam saw some coloured patches on the bark of trees. His elder brother told him that these are called lichens.
  - a. In which kingdom are these included?
  - b. What is the relation of lichens with air pollution?
2. A trip to Himalayan foothills was organised by Raman and Riya's school. During the trip they noticed tall trees having needle-like leaves and cones.
  - a. Name the trees they saw there.
  - b. What are cones?

3. Sakshi's younger brother frequently suffered from stomach ache and vomiting. The report of his stool test diagnosed infection caused by common roundworms. Sakshi asked these questions from the doctor.
  - a. What are common roundworms?
  - b. Are there any other worms that live as parasites in our body and cause diseases?
  - c. How do roundworms enter our body? How can these infections be prevented?
4. How can you identify a leech while you are out on a walk on the hills?
5. Start a project on vermicomposting in your school or home garden.
  - a. Write two identifying features of the phylum to which earthworms belong to.
  - b. Find out if leech and earthworm have any similarities in their characteristics.