

# WORKSHEET 1

## CHAPTER 3 – DIVERSITY IN LIVING ORGANISM

### A. Tick (✓) the correct option.

- The kingdom intermediate between kingdom Monera and multicellular organisms is
  - Plantae.
  - Animalia.
  - Fungi.
  - Protista.
- Locomotion in Mollusca is with the help of
  - parapodia.
  - legs.
  - pseudopodia.
  - muscular foot.
- Which one of the following is not an Annelid?
  - Nereis*
  - Earthworm
  - Leech
  - Urchins
- Which among the following have open circulatory system?
  - Arthropoda
  - Mollusca
  - Annelida
  - Coelenterata
  - (i) and (ii)
  - (iii) and (iv)
  - (i) and (iii)
  - (ii) and (iv)
- Which one is a true fish?
  - Jellyfish
  - Starfish
  - Dog fish
  - Silver fish

### B. Fill in the blanks.

- Fill kingdom system of classification was proposed by \_\_\_\_\_
- \_\_\_\_\_ subkingdom of plant has hidden reproductive organs.
- Locomotory organ of *Euglena* is \_\_\_\_\_
- Canal system is a characteristic feature of phylum \_\_\_\_\_
- \_\_\_\_\_ are also called vascular cryptogams.

### C. State true [T] or false [F].

- Tube feet are locomotary organs of Annelida.
- Pteridophytes are flower bearing plants
- Monocots have parallel venation.
- Aves are warm-blooded animal.
- Coelenterates are triploblastic organisms.

### D. Match the column.

- |                       |                         |
|-----------------------|-------------------------|
| 1. Egg laying mammal  | (a) Echinodermata       |
| 2. Unio               | (b) Euglena             |
| 3. Ferns              | (c) Platyhelminthes     |
| 4. Whip-like flagella | (d) Vascular cryptogams |
| 5. Planaria           | (e) Echidna             |

Name: .....

Teacher's signature: .....

Class: ..... IX .....

Date: .....

**E. Answer the following questions.**

1. What is coelom?
2. Differentiate between notochord and nerve cord.
3. What are the four main characteristics of chordates?
4. Bat can fly, still it is placed in mammals. Why?
5. Give main characteristics of division Thallophyta.

# ANSWERS

## WORKSHEET 1

### A. Tick (✓) the correct option.

1. d.                                      2. d.                                      3. c.                                      4. a.                                      5. c

### B. Fill in the blanks.

1. Robert Whittaker
2. Cryptogamae
3. Flagella
4. Porifera
5. Pteridophyta

### C. State True [T] or false [F].

1. F                                      2. F                                      3. T                                      4. T                                      5. T

### D. Match the column.

1. e                                      2. a                                      3. d                                      4. b                                      5. c

### E. Answer the following questions.

1. Coelom is a cavity between the body wall and the food canal.
2. Notochord is a flexible rod like structure which lies lengthwise between the central nervous system and the gut and chordates possess it at young stage of development. In adult vertebrates, it is replaced by vertebral column.

On the other hand, a nerve cord is a solid strand of nervous tissue, forming part of central nervous system, especially of invertebrates. The main difference between the two is that notochord is a part of skeleton system whereas nerve cord is a part of nervous system.

3. Characteristics of chordates:

- |                              |   |
|------------------------------|---|
| (i) Presence of notochord    | (ii) Presence of dorsal hollow nerve cord |
| (iii) Presence of gill slits | (iv) True coelomate and triploblastic     |

4. Bat has the following mammalian characteristics:

- |                                |                                 |
|--------------------------------|---------------------------------|
| (i) They are viviparous        | (ii) Presence of mammary glands |
| (iii) Presence of external ear | (iv) Presence of teeth in beak. |

5. Characteristics of division thallophyta:

- (i) Undifferentiated plant body called thallus.
- (ii) Vascular system absent.
- (iii) Predominantly aquatic.
- (iv) Mainly include algae.