



## BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(BT)-Hons-2022

Course Name – Animal Diversity I

Course Code - BBTD503A

( Semester V )

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

### Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Identify among the following, the meaning of Mollusca
  - a) Shell covered
  - b) Hard bodied
  - c) Soft bodied
  - d) None of these
- (ii) Name the organ which helps in locomotion of Mollusca
  - a) Fins
  - b) Tail
  - c) Muscular foot
  - d) Legs
- (iii) Identify the appendage used for forward movement by Paramecium
  - a) Flagella
  - b) Cilia
  - c) Pseudopodia
  - d) Cytoplasm
- (iv) Describe pseudopodia of protozoa in one word
  - a) Fingerlike
  - b) Footlike
  - c) Leglike
  - d) Eyelike
- (v) Identify the correct combination in case of polymorphism in coelenterata
  - a) Sexual polyp and sexual medusa
  - b) Asexual polyp and asexual medusa
  - c) Asexual polyp and sexual medusa
  - d) Sexual polyp and asexual medusa
- (vi) Identify the best option for dactylozooids
  - a) Feeding zooids
  - b) Defense zooids
  - c) Reproductive zooids
  - d) None of these
- (vii) Identify the parasite which is known as human beef tapeworm
  - a) Taenia solium
  - b) Taenia saginata
  - c) Liver fluke
  - d) Biliod flukes
- (viii) Choose the correct phylum for the organisms who have elongated and segmented body

- a) Porifera  
c) Platyhelminthes  
b) Annelida  
d) Protozoa
- (ix) Choose the organism group which produces a small peptide acting as anti-coagulant  
a) Protozoa  
b) Hirudinea  
c) Polyps  
d) Earthworms
- (x) Predict the nature of cuticle in annelida  
a) Made of alpha chitin and rigid  
b) Made of alpha and flexible  
c) Made of collagen and rigid  
d) Made of collagen and flexible
- (xi) Vermicomposting is the process to convert waste material with rigid structures into compost. Identify the phylum capable of doing it.  
a) Arthropoda  
b) Annelida  
c) Porifera  
d) Aves
- (xii) Identify the function of royal jelly  
a) Helps queen bee produce males  
b) Helps normal egg produce new queen bee  
c) Helps produce drones  
d) Helps produce honey
- (xiii) Identify the juvenile insect which is similar to adult  
a) Larvae  
b) Pupa  
c) Nymph  
d) Cocoon
- (xiv) The rotation of the visceral mass, mantle, and shell 180° with respect to the head and foot of the gastropod is a peculiar property of the group. Select the appropriate term for the phenomenon.  
a) Tension  
b) Rotation  
c) Torsion  
d) Torque
- (xv) A love dart is a sharp, calcareous or chitinous dart which some hermaphroditic land snails and slugs create. Explain the purpose of the dart.  
a) Mating  
b) Courting  
c) Sperm transfer  
d) Fertilization

#### Group-B

(Short Answer Type Questions)

3 x 5=15

2. Establish the importance of coral reefs. (3)
3. Examine characters of annelida. (3)
4. Describe locomotion in protozoa. (3)
5. Explain canal system of porifera. (3)
6. Analyze the importance of bees. (3)

OR

Evaluate vermicomposting. (3)

#### Group-C

(Long Answer Type Questions)

5 x 6=30

7. Describe life cycle of plasmodium with diagram. (5)
8. Explain different types of symmetries with examples of each. (5)
9. Justify balanoglossus as evolutionary link. (5)
10. Compare centipede and millipede. (5)
11. Explain complete metamorphosis through example of silkworm with well labelled diagram. (5)
12. Explain the formation of shells in mollusca. (5)

OR

Compare echinodermata and mollusca.

(5)

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