

Life Sciences, Grade 11, Biodiversity of Animals

Written questions

Question 1: Animal Classification and Body Plans

- 1.1 Define "Cephalisation" and explain its significance in animal evolution.
- 1.2 Differentiate between "Diploblastic" and "Triploblastic" organisms, naming the germ layers present in each.
- 1.3 Describe the three main types of coeloms (body cavities) found in animals, providing the correct biological term for each.

Question 2: Invertebrate Phyla and Characteristics

- 2.1 For Phylum Porifera, describe two distinguishing characteristics related to their body structure.
- 2.2 Compare Phylum Cnidaria and Phylum Platyhelminthes based on their symmetry and presence/absence of a through gut.
- 2.3 List three key characteristics that are common to all organisms belonging to Phylum Arthropoda.

Question 3: Invertebrates in Agriculture

- 3.1 Explain the "Grazer Niche" and provide an example of an invertebrate that fills this role.
- 3.2 Describe two ways in which invertebrates contribute to "Decomposition and Recycling" in agricultural ecosystems.
- 3.3 Discuss the importance of invertebrates in "Pest Control" and "Plant Pollination" within an agricultural context, providing an example for each.