

# 3. ANIMAL DIVERSITY-I

## INVERTEBRATE PHyla

(1 X 2) + (1 X 4) = 6 Marks

### ROOT POINTS

1. **Invertebrate Phyla** includes the animals which are **without back bone**.
2. The invertebrates constitute about **90%** of the known animals.
3. Invertebrates are characterised by
  - (i) a segmented body (ii) Jointed appendages (iii) Exoskeleton (iv) Brain
4. **Invertebrate Phyla (Etymological meaning) - Examples:**
  - (i) Porifera (Pore bearing)- Sponges
  - (ii) Cnidaria (stinging nettle) - Hydra, Jellyfish, coral
  - (iii) Ctenophora (Comb bearing)-Comb Jellies
  - (iv) Platyhelminthes(Flat Worm) - Flat Worms
  - (v) Nematoda (Thread like)-Round Worms
  - (vi) Annelida (Ringed) - Leeches
  - (vii) Arthropoda (Jointed Legs) - Spiders, Insects
  - (viii) Mollusca (Soft) - Octopus, Squid, Pila
  - (ix) Echinodermata (Spiny skinned) - Star Fish
  - (x) Hemichordata (Half cord) - Acorn Worms
5. Anthozoans are commonly called as **sea anemones**. [IPE]  
They are sedentary marine animals.
6. **Polychaetes** are marine annelids. They are commonly bristle worms or clam worms. [IPE]
7. **Limulus**(king crab) is the living fossil arthropod. The respiratory organs are book gills. [IPE]
8. **Crustaceans** are aquatic mandibulate arthropods. [IPE]
9. **Aristotle's lantern** is a complex 5 jawed masticatory apparatus present in [IPE]  
buccal cavity of sea urchins. **Ex:** Echinus (Sea urchin)
10. **Echinoidea** is a class of phylum echinodermata. [IPE]

**FRUITY Qs OF IPE****(1 x 2) + (1 x 4) = 6 Marks**

1. What are the functions of canal system of sponges?
2. Distinguish between amphids and phasmids.
3. What do you call the first and second pairs of cephalic appendages of a scorpion?
4. What is Aristotle's lantern? Give one example of an animal possessing it?
5. What is the function of radula? Give the name of the group of molluscs which do not possess a radula?
6. Write short notes on the salient features of the anthozoans.
7. What are the salient features exhibited by polychaetes?
8. What are the chief characters of the crustaceans?
9. What are the salient features of the echinoids?