ATOMIC ENERGY CENTRAL SCHOOL, INDORE

MODULE 4.3







Chiton

Octopus



Unio



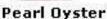


Sepia



Limnaea







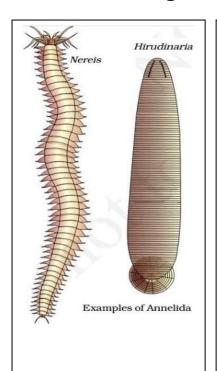
Land Snail

UNIT 1: DIVERSITY IN THE LIVING WORLD CHAPTER 4 ANIMAL KINGDOM

PREPARED BY-

NEERAJ KUMAR **BAMANIA** PGT(SS) - BIOLOGY **AECS INDORE.**

Animal Kingdom Classification System



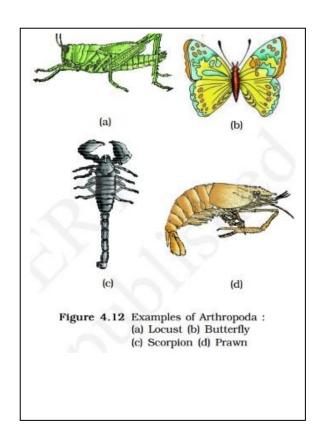
Phylum Annelida

- Aquatic or terrestrial.
- Free living or parasitic.
- Organ system level body bilateral symmetry and
 Triploblastic coelomate.
- Nephridia for excretion.
- Ventral double Nerve cord.
- * Monoecious or Dioecious.
- Reproduction Sexual. eg.
- Earthworm(Pheretima), Nereis etc.
- Metameric segmentation.

Phylum Arthropoda

(Jointed Legs)

- Largest phylum.
- Bilateral symmetry, Triploblastic, segmented coelomate.
- Body Head, Thorax and Abdomen(three parts).
- Blood without haemoglobin and circulatory system open.
- * Respiration by gills, book lungs and trachea.
- Excretion by malpighian tubules.



Phylum Mollusca

Soft body animals. Second largest phylum.

Aquatic, bilateral symmetry, triploblastic, coelomate. Body unsegmented divided into head, muscular foot and visceral hump.

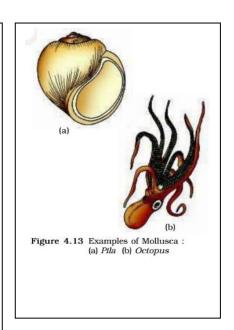
Soft mantle over visceral hump. Respiration and excretion through gills.

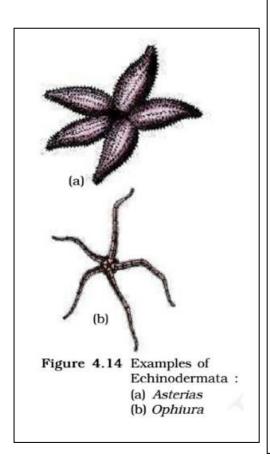
Unisexual.

Sensory tentacles on head and Radula in mouth.

Oviparous.

-eg.Pila, Octopus etc





PHYLUM ECHINODERMATA

Body surface spiny, (due to calcareous ossicles)

Marine, organ system level, adult radially symmetrical, triploblastic coelomate.

Mouth ventral

Water vascular system present for locomotion, capture and transport of food and respiration.

Sexes separate fertilization external, development indirect

e.g. Asterias (Starfish), Sea urchin (Echinus), etc.

PHYLUM HEMICHORDATA

Marine

Bilateral symmetry, triploblastic, coelomate

Body

Proboscis

Collar

Trunk

Circulatory system open

Gills for respiration

Proboscis gland for excretion

Sexes separate fertilization external, development indirect, e.g. Balanoglossus.

References

- 1. NCERT. BIOLOGY TEXTBOOK FOR CLASS XI
- 2. CONCEPTS OF BIOLOGY (R.L. KOTPAL / BENDRE/TYAGI)

https://www.ruf.rice.edu/~bioslabs/studies/invertebrates/kingdoms.html