

• PHYLUM MOLLUSCA

Saturday, August 5, 2023

12:19 PM

MOLUSCUS → **SOFT BODY Animal** OR **Shelled animals**

→ 80,000 → species

→ Second Largest phylum

→ Largest invertebrate → Giant Squid

HABITAT

• Exclusively aquatic → Fresh & marine

• Some Terrestrial → Land Snails

BODY STRUCTURE

• Triploblast → Coelomate → Deuterostome

• Bilateral symmetry

• Soft and unsegmented Body

→ Head

→ Ventral muscular foot

→ Dorsal visceral mass

MANTLE

• Body Covered → Glandular Epithelial → Envelope

• Mantle Secretes → Calcareous shell

• Space between the shell and mantle cavity → Gills

RADULA

• Mouth cavity → **Resping tongue Like** → Radula
Horny teeth

DIGESTIVE SYSTEM

• Gut → openings \leftarrow Mouth
Anus

EXCRETORY SYSTEM

- Paired Nephridia

NERVOUS SYSTEM

- Three Pairs → Ganglia

RESPIRATORY SYSTEM

- Gases Exchange → Gills → Aquatic
- Snail → mantle cavity → Lungs → Terrestrial

CIRCULATORY SYSTEM

- open Circulatory System Except → Cephalopod
- Coelom → Sinuses or Blood space
- Blue Colour - Respiratory pigment → Haemocyanin

LOCOMOTION

- Locomotory organ → Muscular foot

- Some molluscs → Sessile

REPRODUCTION

- Sexes → Separate
- Fertilization → External
- Larvae → Glochidium or Trochophore

ECONOMIC IMPORTANCE

- Source of food
- use in button industry
- Ornamental purpose

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IMPORTANCE

- use in button industry
- ornamental purpose
- Pearls

EXAMPLES



Garden Snail
(*Helix aspersa*)



Slug
(*Limax*)



Freshwater mussel
(*Anodonta*)



Marine mussel
(*Mytilus*)



Oyster
(*Ostrea*)



Squid
(*Loligo*)



Cuttlefish
(*Sepia*)



Octopus

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