

Biology 1

~Meat~

Kingdom Animalia

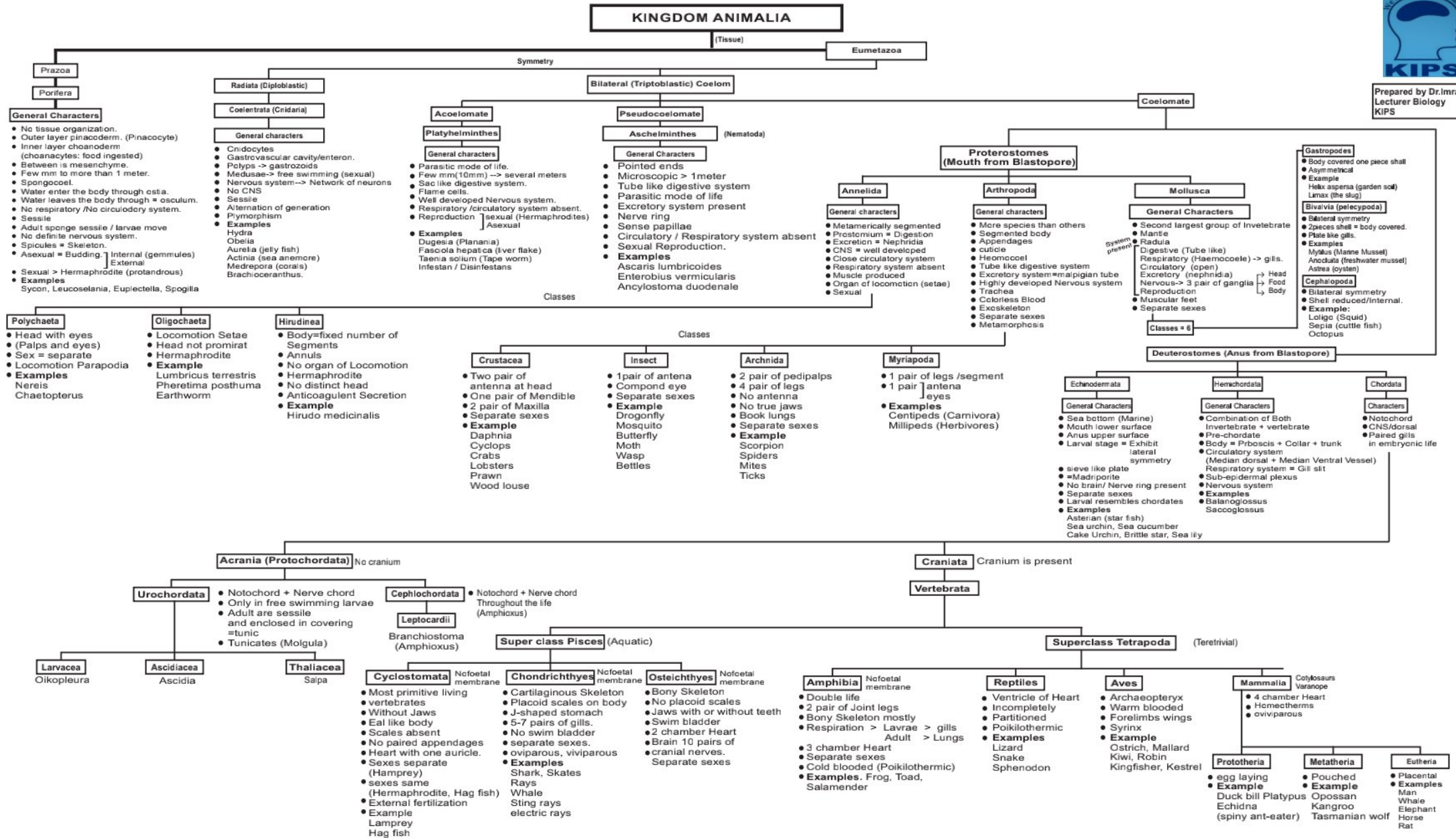
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KIPS



KINGDOM ANIMILIA

parazoa

Eumetazoa

(i)	X	Symmetry	✓	(i)
(ii)	X	Tissue	✓	(ii)
(iii)	X	System	✓	(iii)

Ex porifera
↓
Simp lest
Sycon sponges

Symmetry

Radial



- Any plane passing through
- Body divides into mirror



↓
Equal
Half

Bilateral



- Animal can only be divided to equal mirror by only one plane



Grading depends upon symmetry of Animal

Bilateral

Bilateral Symm

Radial sym

Grades

Bilateria

Radiata

• Two surface → Anterior (Ventral)
→ Posterior (Dorsal)

Hydra
(i) Cnidaria (ii) Adult echinoderm

• Two position → Lateral
→ Medial

⇒ Diploplastic org.
• Ecto derm
• Endo derm

• Triploblast → 1 Endo (پایین) → 2 Meso → 3 Ecto (بالا)

⇒ Absences

Coelom X

Triploblast X

NO ← colem
pseudocoelom

Coelomates

True coelom → Coloemate
Acoelom
Pseudo

Protostomes

• A -

• A

• M Molluscs.

Deutrostomes

• H Hemichorda

• E Echinoderm

• C Chordates.

Q: First Time Digestive system

→ Cnidaria.

→ Hydra.

Q: First Time Nervous System

→ Cnidaria.

→ Hydra.

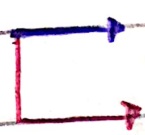
→ Diffused.

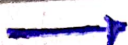
Q: Stinging Cells

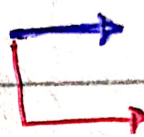
→ Cnidaria → Nematocyst.

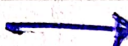
Q: NO Excretory system.


→ Cnidaria


i) First excretory system  flat worms
Platyhelminthes

ii) Excretory system of  Annelids.
Medium variety

iii) Excretory system present in dependent sections.  Segmented worm
Annelid.

iv) Excretory system link with digestion  Arthropoda

v) Largest class  53.7%
Insecta class.

vi) Largest phylum  Arthropoda

vii) No True meta morphosis  Archnida.

ix) No Respiratory Pigment → Arthropods.

x) Molluscs Pigment → Hemocyanine
↓
violet Blue

xi) Respiratory pig. of Chordate → Haemoglobin,
Myoglobin.