

### ANIMALIA OR METAZOA CLASSIFICATION

| Kingdom | Symmetry  | level of organisation | Body Cavity  | Phylum                                              |
|---------|-----------|-----------------------|--------------|-----------------------------------------------------|
| Metazoa | ASYMMETRY | Cellular level        | -            | Porifera                                            |
|         | Radial    | Tissue level          | -            | Cnidaria, Ctenophora ctenophora                     |
|         | Bilateral | Organ level           | Absent       | platyhelminthes -                                   |
|         | Bilateral | Organsystem           | Pseudocoelom | nematoda - -                                        |
|         |           | Organ system level    | true coelom  | Annelida, Arthropoda,Mollusca Hemichordata,Chordata |

### EXAMPLES OF THE ANIMAL KINGDOM

| PORIFERA                                            | COLEENTERATA                                                                                                         | CTENOPHORA                | PLATYHELM-INTHES                         | ASCHEL-EMINTHES                                                       | ANNELIDA                                                                 | ARTHROPODA                                                                                                                                                                          | MOLLUSCA                                                                                                                                                              |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EG:-sycon (scypha), spongilla- (fresh water sponge) | physalia(portuguese man of war),adamsia(sea-anemone),pennatula-(sea-pen), gorgonia(-sea-fan), meandrina(brain-coral) | pleurobrachia, ctenoplana | taenia(tape worm), fasciola(liver fluke) | ascaria(round worm), wuchereria(filaria worm), ancylostoma(hook worm) | nereis(sand worm),pheretima(earth worm),hirudinaria(blood sucking leech) | IMPORTANT INSECTS_apis-(honey bee),bombyx9silk worm),laccifer(lac insect) VECTOR-S-anopheles,culex,and aedes, gregarious pest_ locusta( locust),living fossil - limulus( king crab) | pila(apple snail),pinctada(pearl oyster),sepiacuttle fish),- loligo(squid),octopus(devil fish),aplysia(slimy sea-hare),dentalium(tusk shell),and chaetopleura(chiton) |



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PRAVALLIKA (pravallika)  
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### EXAMPLES OF THE ANIMAL KINGDOM (cont)

|                                                                                                                                                     |                                           |                                                                                            |                                                                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ECHINO-<br>DERMATA                                                                                                                                  | HEMICH<br>ORDATA                          | CHORDATA                                                                                   | UROCHO-<br>RDATA_ascidi-<br>a,salpa,d-<br>oliolumCEPHAL-<br>OCHORDATA-<br>_branchiosto-<br>ma(amphioxus<br>or lancelet) | VERTEBRATA<br>divided into 2<br>divisions <b>agnatha</b><br>and <b>gnatho-<br/>stomata</b> agnatha<br>divided into<br>cyclostomata<br>class and<br><b>gnathostomata</b><br>into 2 super class<br>of <b>pisces</b> and<br><b>tetrapoda</b> (bear<br>limbs) | PISCES_ChondrichthyesAND<br>osteichthyes                                                                                                                                                                                                                                                                                              |
| eg-asterias(-<br>star-fish),e-<br>chinus(sea<br>urchin),ante-<br>don(sea<br>lily),cuc-<br>umaria ( sea<br>cucumb-<br>er),ophiura(-<br>brittle star) | balano-<br>glossu-<br>s,sacc-<br>oglossus | divided into<br>three<br>subphyla<br>_urochord-<br>ata,ceph-<br>alochordata,<br>vertebrata |                                                                                                                         | CYCLOS-<br>TOMATA<br>eg_Petromyzon(l-<br>amprey),myxine-<br>(hagfish)                                                                                                                                                                                     | ★chondrichthyes eg_scolio-<br>don(dog fish), pristis(saw<br>fish),carchardon(great white<br>shark),trygon(sting ray). ★<br>Osteichthyes- marine-exoce-<br>tus(flying fish),hippocampus(-<br>sea-horse),freshwater-labeo-<br>(rohu),catla(katla),clarias(ma-<br>gur),Aquarium_betta( fighting<br>fish),pterophyllum(angel-fi-<br>sh)** |

Tetrapoda- AMPHIBIANS REPTILES AVES MAMMALS

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### EXAMPLES OF THE ANIMAL KINGDOM (cont)

|                                                                                                       |                                                                                                                                                                                                                       |                                                                                                                                       |                                                                                                                                                                                                                                                                                                           |                                                                              |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Eg:- ★Bufo(toad), Rana(frog), Hyla(tree frog), Salamandra(salamander), Ichthyophis(limbless amphibia) | Eg ★ chelone(turtle), testudo(tortoise), chameleon(tree lizard), calotes(garden lizard), crocodilus(crocodile), Alligator, Hemidactylus( wall lizard), poisonous snake - Naja (cobra), bangarus(Krait), Vipera(viper) | Eg:- ★Corvus (crow), Columba(-pigeon), Psittacula(parrot), struthio(ostrich), Pavo(peacock), Aptenodytes(penguin), Neophron(Vulture). | Eg:- ★OVIPAROUS-Ornithorhynchus(platypus),- VIVIPAROUS Macropus(Kangaroo), Pteropus(-Flying fox), Camelus(camel), Macaca(monkey), Rattus(rat), Canis(dog), Felis(cat), Elephas(Elephant),- Equas(horse), Delphinus(Common dolphin), Balaenoptera( blue whale), Panthera tigris(Tiger), Panthera leo(Lion) | ★ (All this are examples and another names of all species in animal kingdom) |
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