

DISTRIBUTION OF VERTEBRATES

- LATIMERIA CHALUMNAE – CAUGHT IN EAST COAST OF SOUTH AFRICA
- NEOCERATODUS FORSTERI - BURNETT AND MARY RIVERS IN QUEENS LAND OF AUSTRALIA
- PROTOPTERUS AESTHIOPICUS - RIVERS OF TROPICAL AFRICA
- LEPIDOSIREN PARADOXA – RIVERS OF SOUTH AMERICA
- APODA - INDIA ,SRILANKA,PAKISTAN,AFRICA AND TROPICAL AMERICA
- URODELA OR CAUDETA – NORTH AMERICA (HEADQUARTERS OF URODELA)
- TYLOTOTRYTON – HIMALAYAN NEWT
- ANURA – TROPICAL AND TEMPERATE REGIONS OF THE WORLD
- SPHENODON – NEWZEALAND
- HELODERAMA HORRIDUM – MEXICAN BEADED LIZARD
- VARANUS MONITOR – INDIAN MONITOR LIZARD
- GLOYDIUS(ANCISTRODON) HIMALAYANUS – HIMALAYAN PIT VIPER
- EUNECTES MURINUS (GREEN ANACONDA) – SWAMP AND RIVERS OF THE DENSE FORESTS OF TROPICAL SOUTH AMERICA
- PYTHON MOLURUS – INDIA
- PYTHON RETICULATUS – SOUTH EAST ASIA
- ARCHAEOPTERYX LITHOGRAPHICA – BAVARIA (GERMANY)
- PENGUINS(SUPER ORDER IMPENNAE) – SOUTHERN HEMISPHERE
- STRUTHIO – AFRICA
- RHEA – SOUTH AMERICA
- DROMAIUS (EMU) – AUSTRALIA
- CASUARIUS – AUSTRALIA AND NEWGUINEA
- APTERYX (KIWI) – NEWZEALAND
- TINAMUS – SOUTH MEXICO , CENTRAL AND SOUTH AMERICA
- PROTOTHERIA AUSTRALIA AND NEW GUINEA
- LAND OF MARSUPIALS - AUSTRALIA
- DIDELPHIS (OPOSSUM) - SOUTH,NORTH AND CENTRAL AMERICA
- CAENOLESTES (OPOSSUM RAT) - SOUTH AMERICA

IMPORTANT PERIODS & ERAS

- ❖ Chordates might have originated prior to “CAMBRIAN PERIOD”
- ❖ Ostracoderms:- They flourished from “ORDOVICIAN PERIOD” to “DEVONIAN PERIOD”
- ❖ Fishes:- originated from Ostracoderms in “SILURIAN PERIOD”
- ❖ Golden age of fishes “DEVONIAN PERIOD”
- ❖ Placoderms:- originated during “SILURIAN PERIOD” became extinct in the beginning of “MESOZOIC ERA”
- ❖ Acanthodii:- They became extinct in “PERMIAN PERIOD”
- ❖ Crossopterygii :- They appeared IN “DEVONIAN PERIOD” and they were thought to have become extinct in “CRETACEOUS PERIOD”
- ❖ AMPHIBIANS:- They originated from Osteolepid fishes during “DEVONIAN PERIOD”
They flourished during “CARBONIFEROUS PERIOD”
- ❖ Reptiles:- Originated from Labyrinthodont amphibians in “CARBONIFEROUS PERIOD”
Flourished through out the “MESOZOIC ERA”
Golden age of reptiles “MESOZOIC ERA”
Culminating in the giant dinosaurs of “JURASSIC and CRETACEOUS PERIODS”

- ❖ AVES:- ORIGINATED from theropod dinosaurs in “JURASSIC PERIOD” Modernized in the “CRETACEOUS PERIOD”
Archaeopteryx :- **JURASSIC BIRD**
Neornithes:- **POST JURASSIC MODERN BIRDS**
- ❖ Mammals:- originated from therapsid reptiles in “TRIASSIC PERIOD”
- ❖ Age of mammals “**COENOZOIC ERA**”

LARGEST AND SMALLEST VERTEBRATES

Fishes :-

Largest ----- *Rhinodon typhus*
Smallest ----- *Paedocypris progenetica*

Amphibians :-

Largest ----- *Andrias davidianus* (*Chinese giant salamander*)
Largest frog ----- *Coraua goliath* or *Rana goliath*

Reptiles :-

Largest ----- *Crocodylus porosus* (*salt water crocodile*)
Smallest ----- *Sphaerodactylus ariasae* (*jaaragua sphaero* or *Dwarf gecko*)

Aves :-

Largest ----- *Struthio camelus* (*Ostrich*)
Smallest ----- *Mellisuga hellinae* (*bee humming bird*)

Mammals :-

Largest ----- *Blaenoptera musculus* (*Blue whale*)
Smallest ----- *Craseonycteris thonglongyai* (*Bumblebee bat*)