

Key Words – Class Aves

Super-order Paleognathae

Super-order Neognathae

Diversity of birds

Role of dinosaur feathers

Thermoregulation

Social communication

Arboreal hypothesis

Top-down

Cursorial hypothesis

Bottom up

Archaeopteryx lithographica

Feathers

Vane

Rachis

Calamus

Barbe

Barbule

Hamulus

Hooks

Pennaceous feather

Downy feather

Keratin

Thoracic air sacs

Abdominal air sacs

Parabronchi

Lung

High metabolic rate

Skeleton

Beak without teeth

Carpometatarsus

Pygostyle

Ribs with uncinated processes

Apophyse

Furcula

Wishbone

Sternum

Keel

Tibiotarsus

Tarsometatarsus

Perching tendons

Pneumatized bones

Digestive system

Oesophagus

Crop

Proventriculus

Ventriculus

Gizzard

Pebbles

Pancreas

Liver

Intestine

Cloaca

Binocular vision

3D

Depth of field

Field of view

Predator

Prey

Counter-current heat exchange

Heat transfer

Don't feel the cold

Reproduction

Rudimentary right oviduct

Left ovary

Ostium

Oviduct

Shell gland cloaca

Internal fertilization

Kidney

Adrenal gland

Adrenaline

Epinephrine

Ureter

Parental care

Altricial chicks

Precocial chicks

Nesting

Feeding the young

Protection

Learning behaviours

Offspring survivorship

Courtship

Nuptial songs