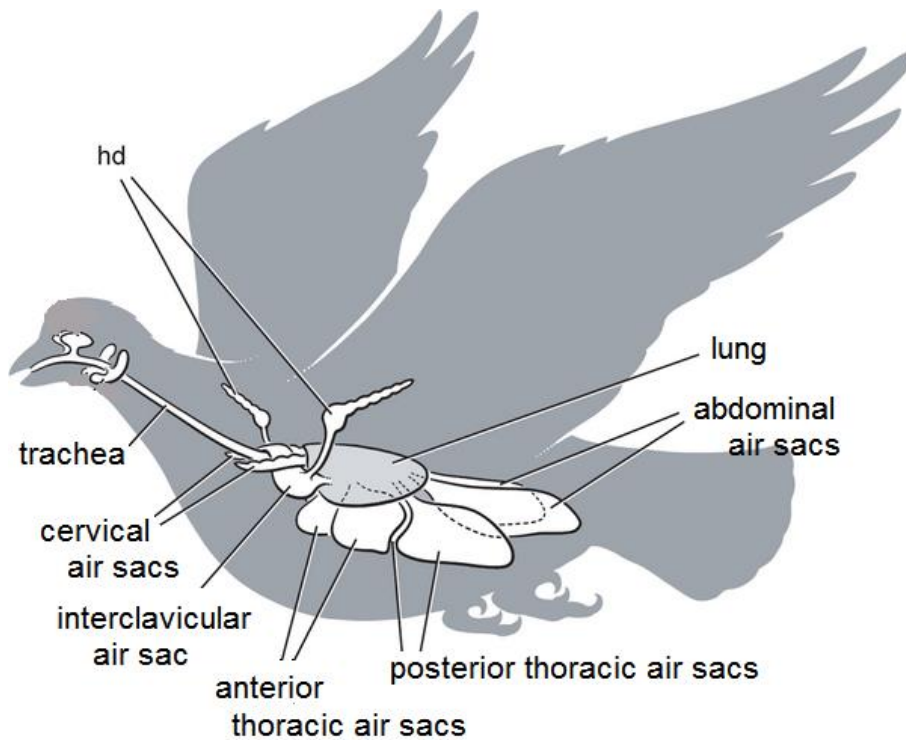


Digestive System of aves

- Beak → Mouth (no teeth)
 - Oesophagus with **crop**
 - Stomach divided into:
 - Proventriculus (glandular)
 - Gizzard (muscular)
 - Intestine short
 - Cloaca present
-

Respiratory System



- Small rigid lungs.
- 9 air sacs:
 - 2 cervical
 - 2 anterior thoracic
 - 2 posterior thoracic

- 2 abdominal
- 1 interclavicular
- **Double respiration** ensures continuous oxygen supply.

Circulatory System

- Four-chambered heart.
- Complete double circulation.
- RBCs oval and nucleated.

Nervous System & Sense Organs

- Large cerebellum (balance during flight).
 - Optic lobes well developed.
 - Keen eyesight.
 - Voice organ called **Syrinx**.
-

Reproductive System

- Sexes separate.
 - Internal fertilization.
 - Oviparous.
 - Large yolky eggs.
 - Parental care well developed.
-

Classification of Aves (Outline)

Subclass I: Archaeornithes

- Extinct birds.
- Example: Archaeopteryx lithographica

Subclass II: Neornithes

Modern birds divided into:

(A) Palaeognathae (Ratitae)

- Flightless birds
- Example:
 - *Struthio camelus* (Ostrich)
 - *Rhea americana*

(B) Neognathae (Carinatae)

- Flying birds
- Examples:
 - *Columba livia*
 - *Corvus splendens*
 - *Pavo cristatus*