

Internal Structure of Heart of Pigeon.

Heart

- Comparatively large, red coloured & conical in shape.
 - Broader side - Base
pointed side - Apex
 - Covered by pericardium
 - outer - parietal
 - inner - visceral
- b/w 2 → pericardial fluid in pericardial cavity.
- Frictionless movement.
 - protects from mechanical injuries & shocks.

External Struct.

Coronary Sulcus

Interauricular groove.

divides heart

Divides

into 2 unequal parts.

auricular part

into

2 Auricles.

Ants,

Post, larger

smaller

Auricular part

Ventricular part

No accessory chambers.

Internally
4 chambered

2 Auricles

2 Ventricles

- Complete separation of Blood
- Unidirectional flow.

① Auricles

- Form $\frac{1}{3}$ part of heart.
- Thin walled
- separated by interauricular septum
- Both are smooth walled

receives Right Auricle

Deoxygenated
blood by
3 venal cavae.

2 pre-caval

Head, Neck
Chest, Fore limbs

1 Post caval

opening

guarded by

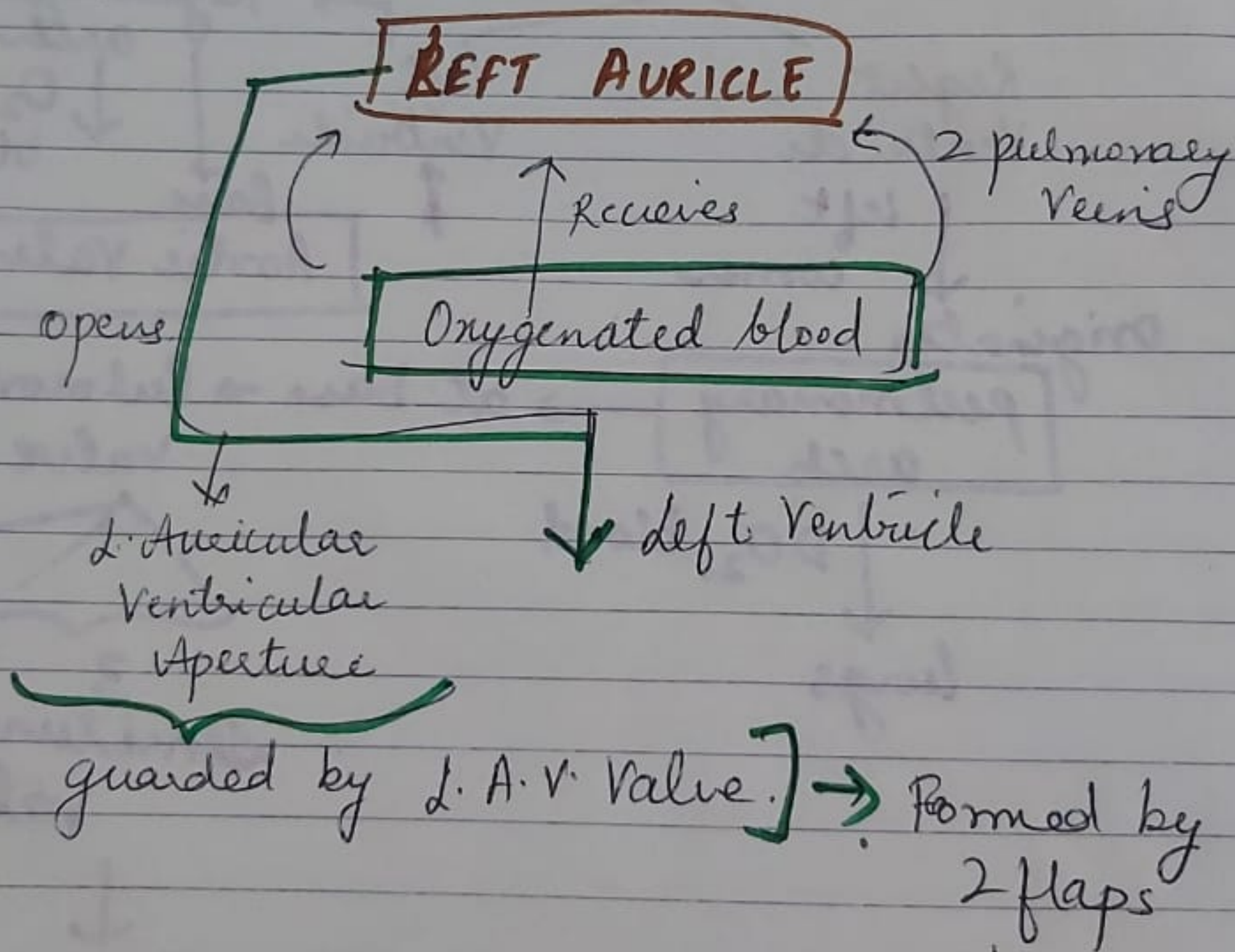
valve of Thebesius

Body parts
behind Heart

R.A
 opens ↓ → Right A.V. aperture } guarded by
 Right
 Ventricle

A.V. Valve
 ↓
 Formed by
 1 flap.

Chordae tendinae - white fibrous threads
 preventing back flow of Deoxygenated blood
 from R.A → R.V.



Mitral Valve / Bicuspid Valve

Chordae Tendinae

↳ here also prevents back flow but of
 Oxygenated blood.

Ventricles

- posterior 2/3 part of Heart
- Both thick walled
- Both are rough walled & have two types of ridges

Columnae
carinae papillary muscles

- Completely separated by I. Ventricular Septum.

