



KHAN GLOBAL STUDIES

The Most Trusted Learning Platform



BSSC Inter Level 2023



LIVE CLASSES



AVINASH ROY SIR

Biology



मानव
↓
Social Animal
"Aristotle"

Zoology
(जीव)

↓
Animal

father → Aristotle
(अरिस्तो)

Botany
(वनस्पति)

↓
plant

↓
"Theophrastus"

i

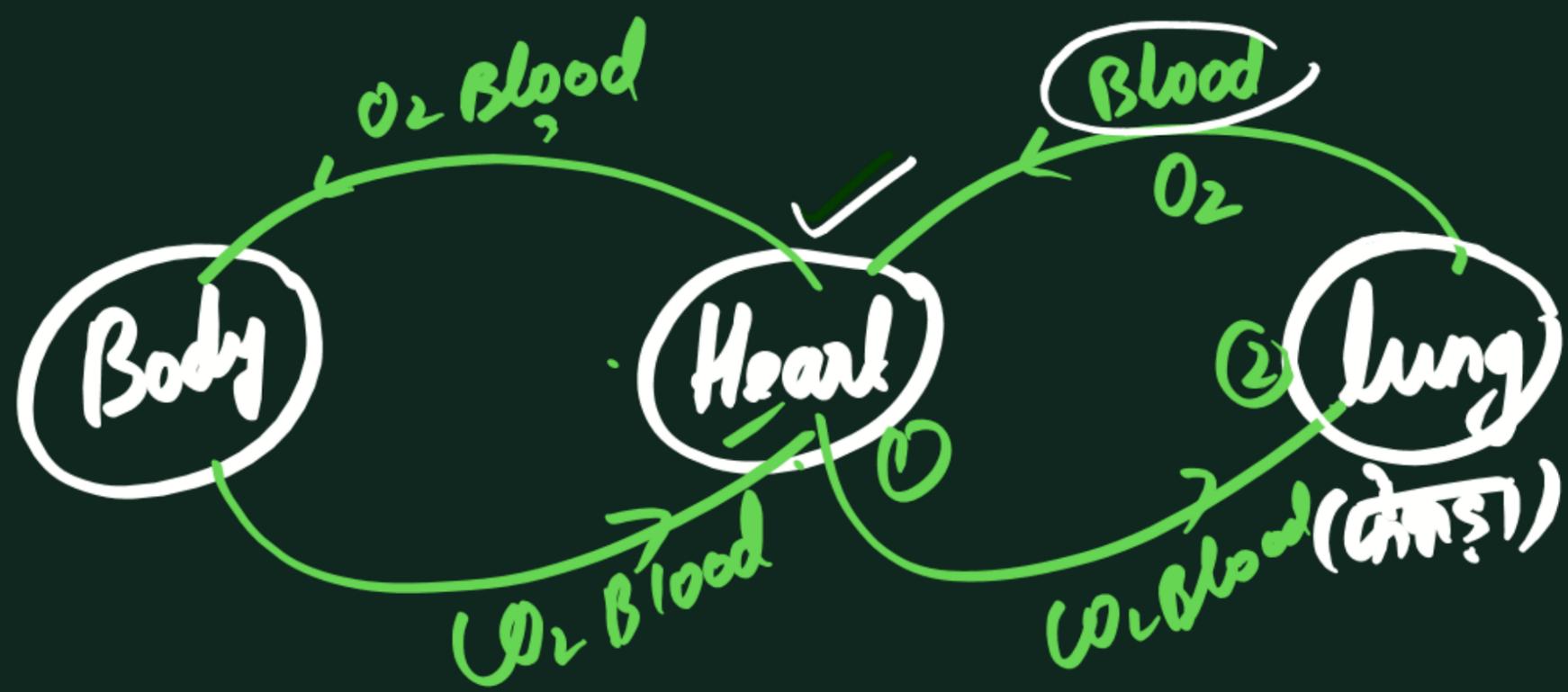
परिसंचरण तंत्र /circulatory system

परिसंचरण तंत्र /circulatory system

Discovered by -William harvey(english physician) in 1628

इसकी खोज 1628 में विलियम हार्वे (अंग्रेजी चिकित्सक) ने की थी

1628



* Blood - O₂ → शुद्ध / oxygenated / Pure
 " → CO₂ → अशुद्ध / deoxygenated / Impure

11:15 pm Dhan khanglobal studies

13

7 Body
CO₂

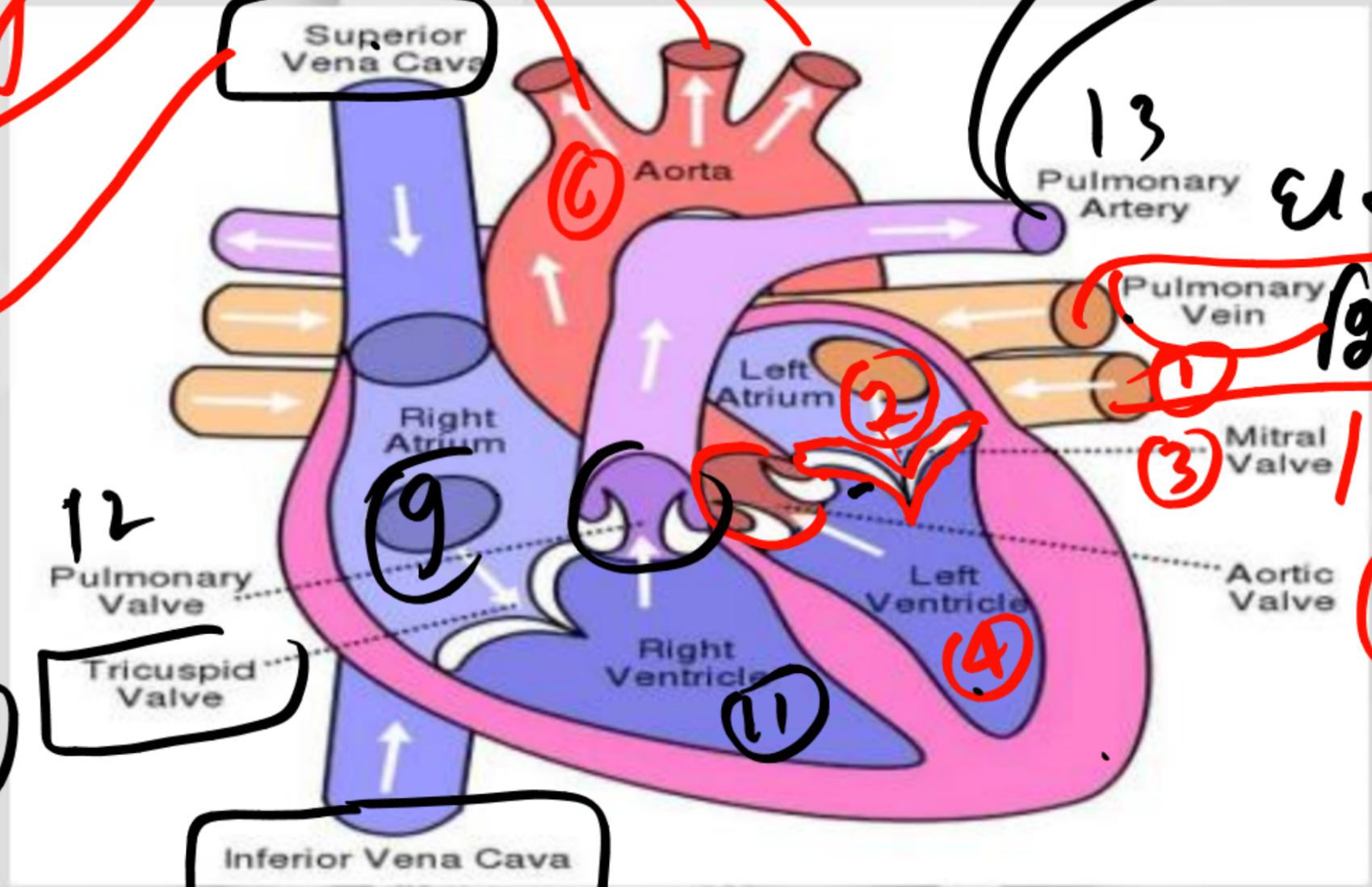
CO₂

10

12

Tricuspid Valve

Inferior Vena Cava



13

Pulmonary Artery

Pulmonary Vein

Mitral Valve

Aortic Valve

13 धमनी

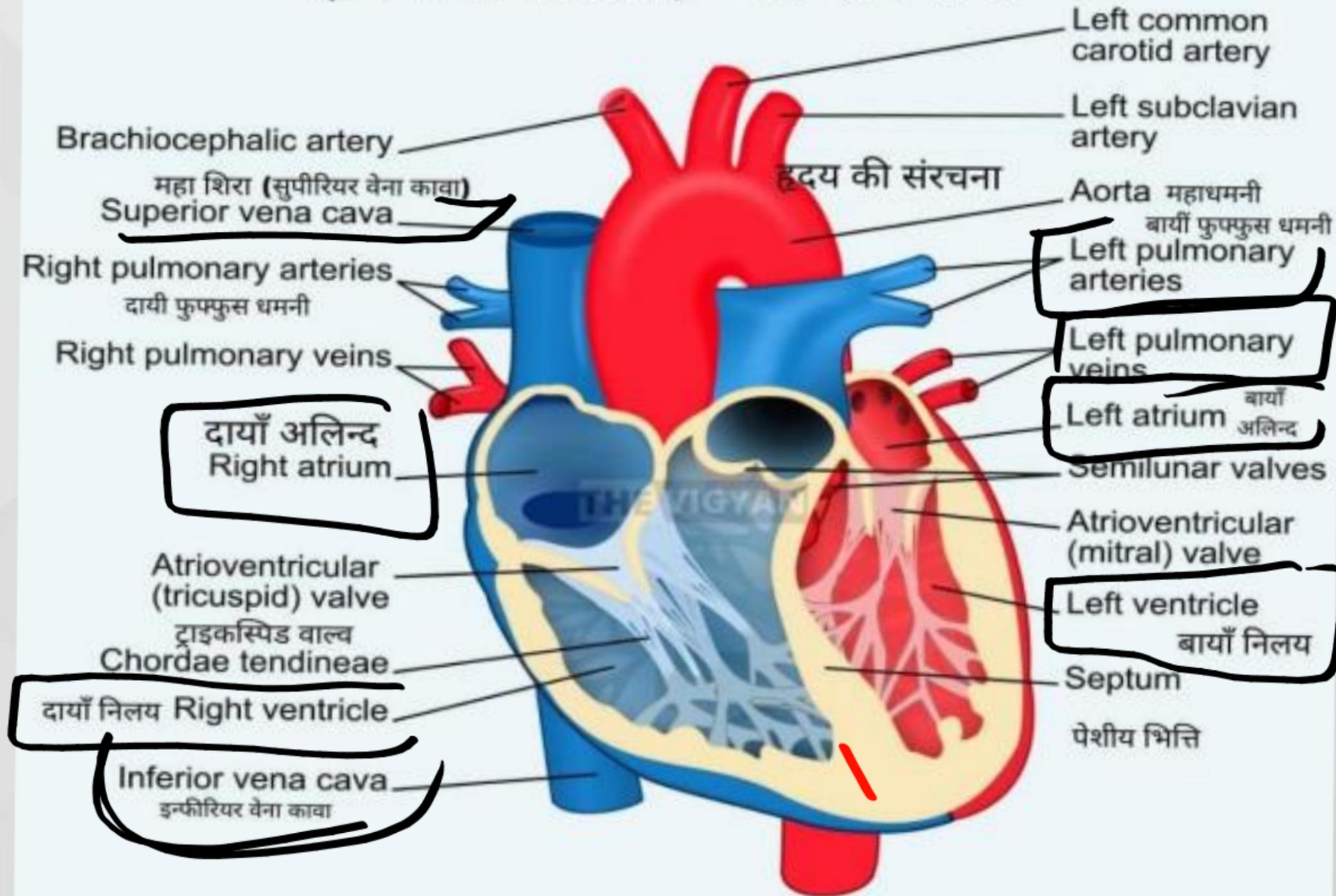
10 शिरा

3 Bicuspid

5

lungs

हृदय (Heart) की संरचना



1 Heart Beat = Systole + Diastole
(दिलकतन) (संकुचन) (शिथिलन)

1 H.B (Sound) = Lub Dub
(लव) (दुव)

11 Instrument = "Stethoscope" (आल)

1 min HB = $\approx 72/\text{min}$

Newly Born Baby = $150/\text{min}$



“Stethoscope”



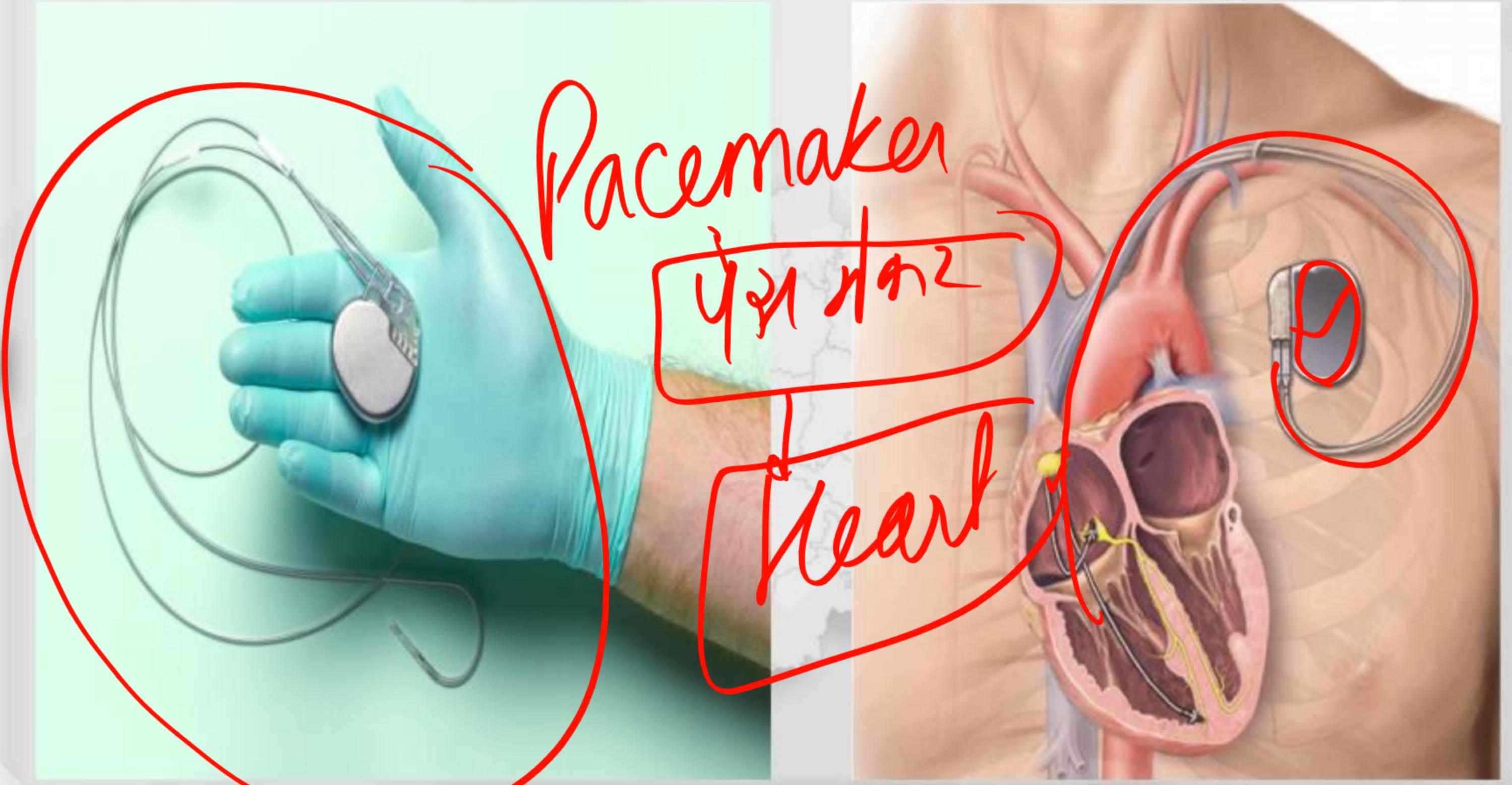


ECG
BO

Heart study

↓
Electro Cardio Gram

↓
S & D





B.P

Instrument (in)
(Sphygmomanometer)

120
80
↓
Normal

130
90
↓

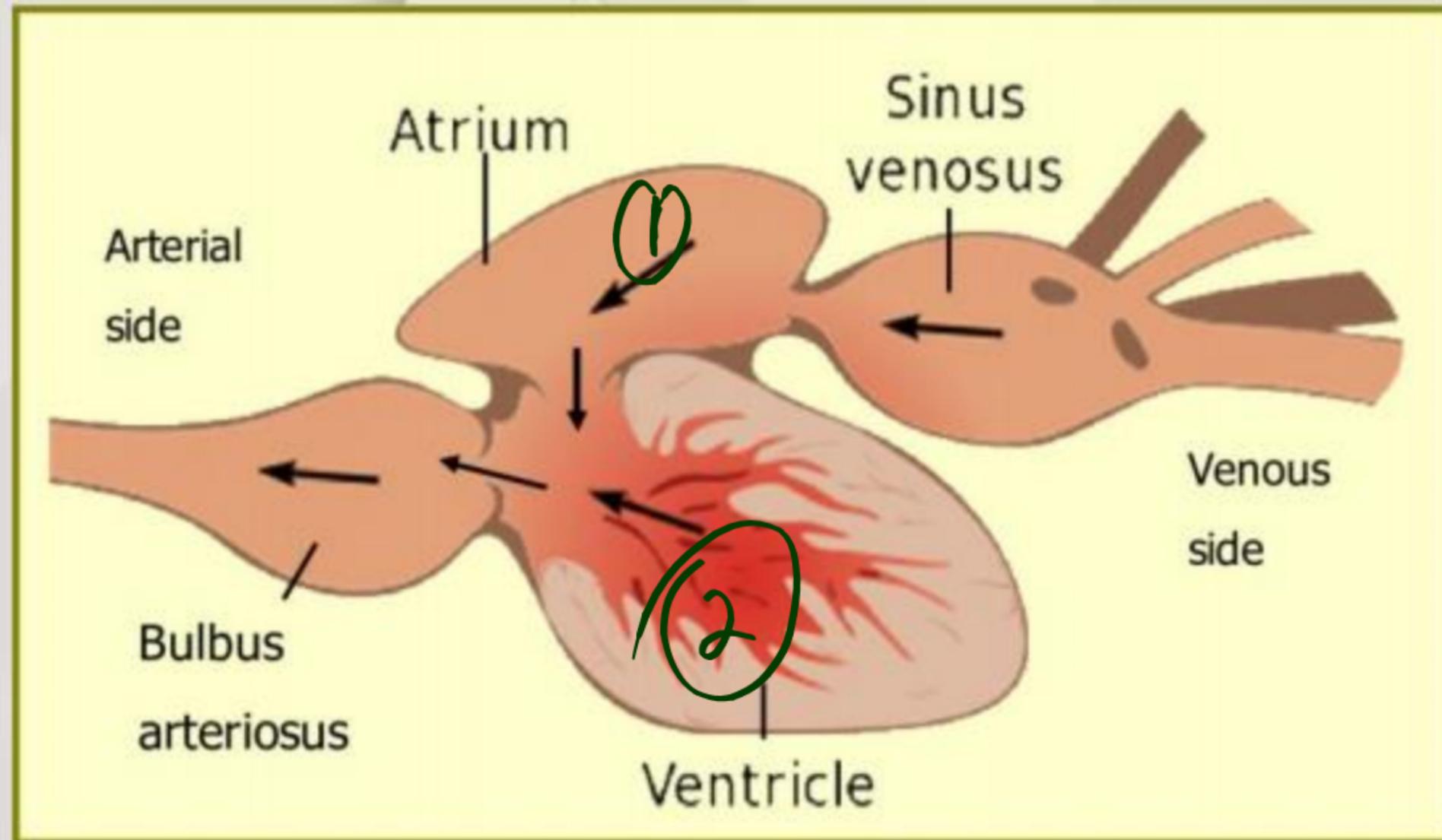
High B.P
Hypertension

Low B.P
110
70
Hypotension

मछलियां में केवल दो-कोष्ठिका हृदय पाया जाता है जिसमें एक एलिंड एवं एक निलय होता है।

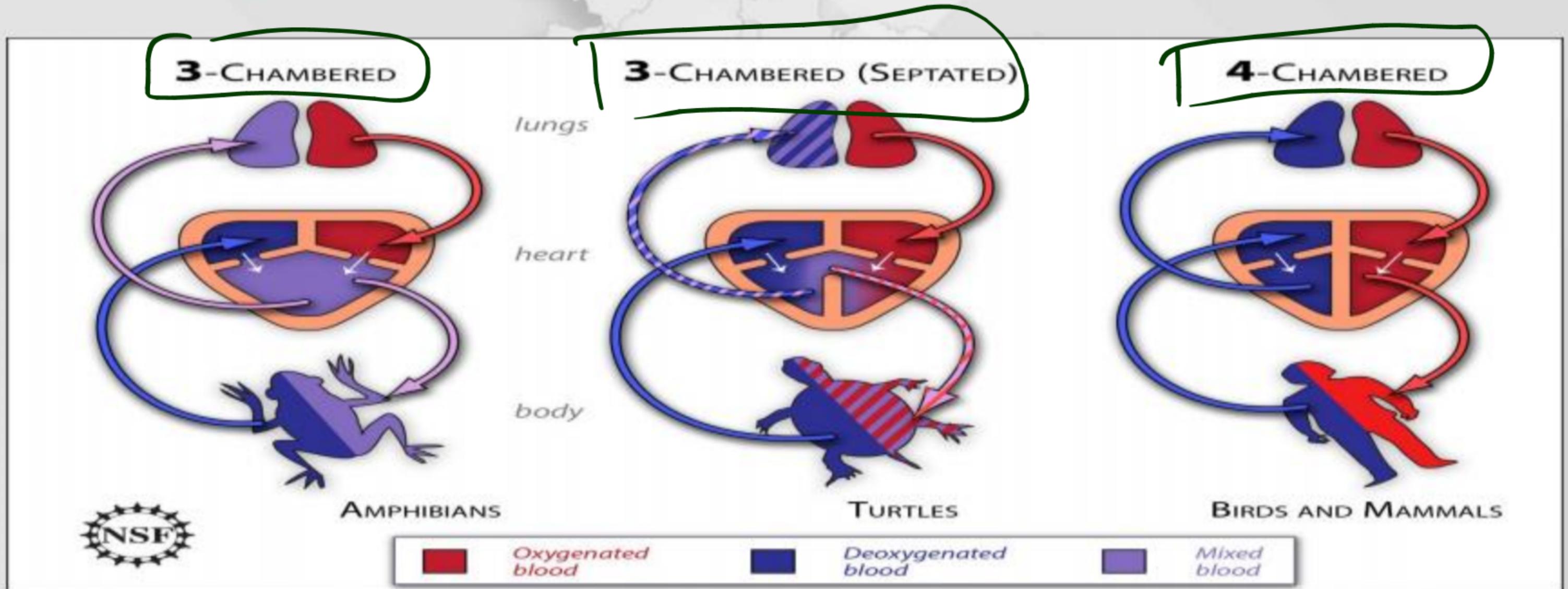
Only a two-chambered heart is found in fishes which consists of one atrium and one ventricle.

Heart



RA LA
RV LV

- सरीसृपों के हृदय संरचना में तीन कोष्ठीय तथा कार्य में चार-कोष्ठीय (four-chambered) होता है।
- The heart of reptiles is three chambered in structure and four-chambered in function.



पक्षियों एवं स्तनियों में हृदय चार कोष्ठीय होता है, जिसमें दो अलिन्द एवं दो निलय होते हैं।

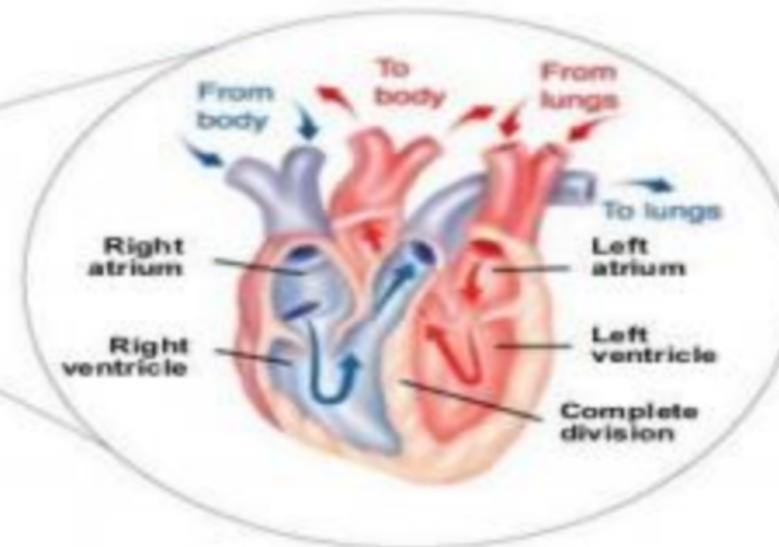
In birds and mammals, the heart is four chambered, which has two atriums and two ventricles.

Circulation

- Double loop circulatory system
- 4 chambered heart

Human

BSSC



the mean weight of the heart is 280-340 g in males and 230-280 g in females.

हृदय का औसत वजन पुरुषों में 280-340 ग्राम और महिलाओं में 230-280 ग्राम होता है।

$$M = (280-340) \text{ gm}$$
$$F = (230-280) \text{ gm}$$



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THANKS FOR WATCHING

