

HUMAN ANATOMY AND PHYSIOLOGY-I, BP-101(T)

UNIT-V (Cardiovascular system)

CLASS:2

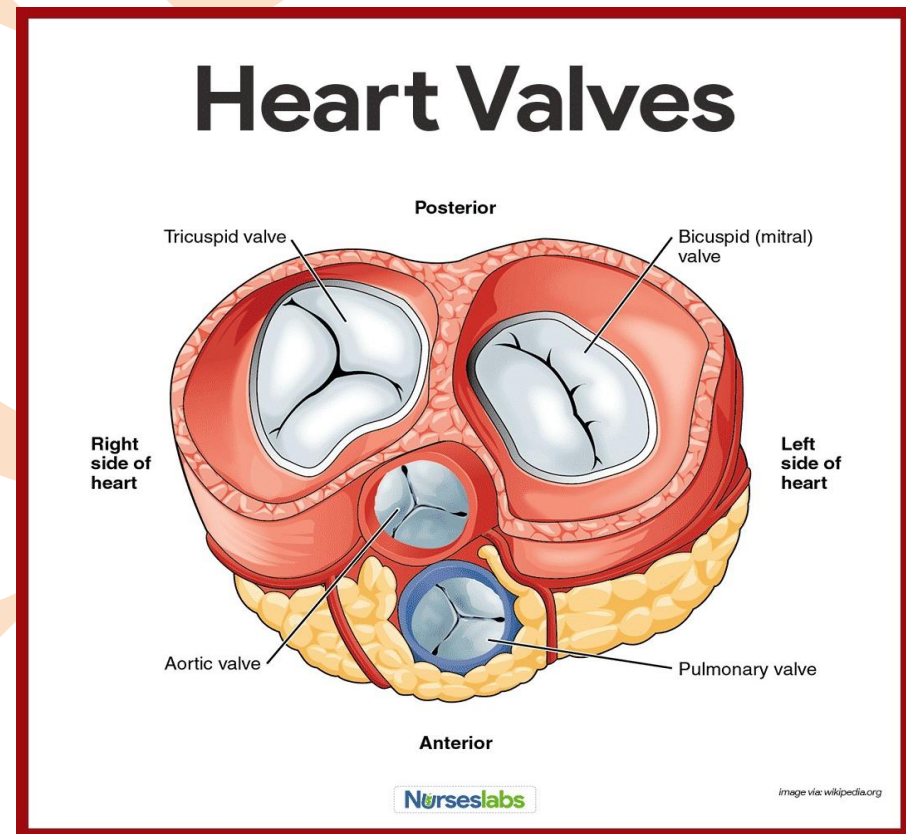
TOPIC – ANATOMY OF BLOOD CIRCULATION, BLOOD VESSELS & STRUCTURE AND FUNCTIONS OF ARTERY

Valves of the Heart

Valves are located within the chambers of the heart.

■ The four valves are known as:

- The tricuspid valve.
- The pulmonic or pulmonary valve.
- The mitral valve.
- The aortic valve.



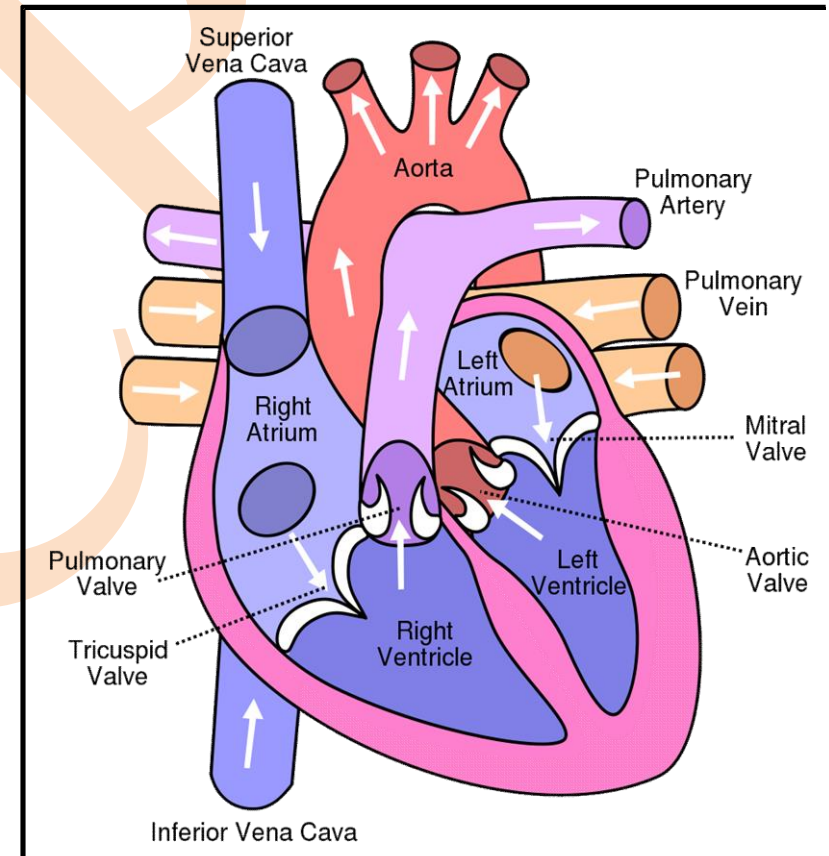
Valves of the Heart

The tricuspid valve:

- Its situated between the atria and the ventricle.
- Controls the opening between the right atrium and the right ventricles.

The mitral valve:

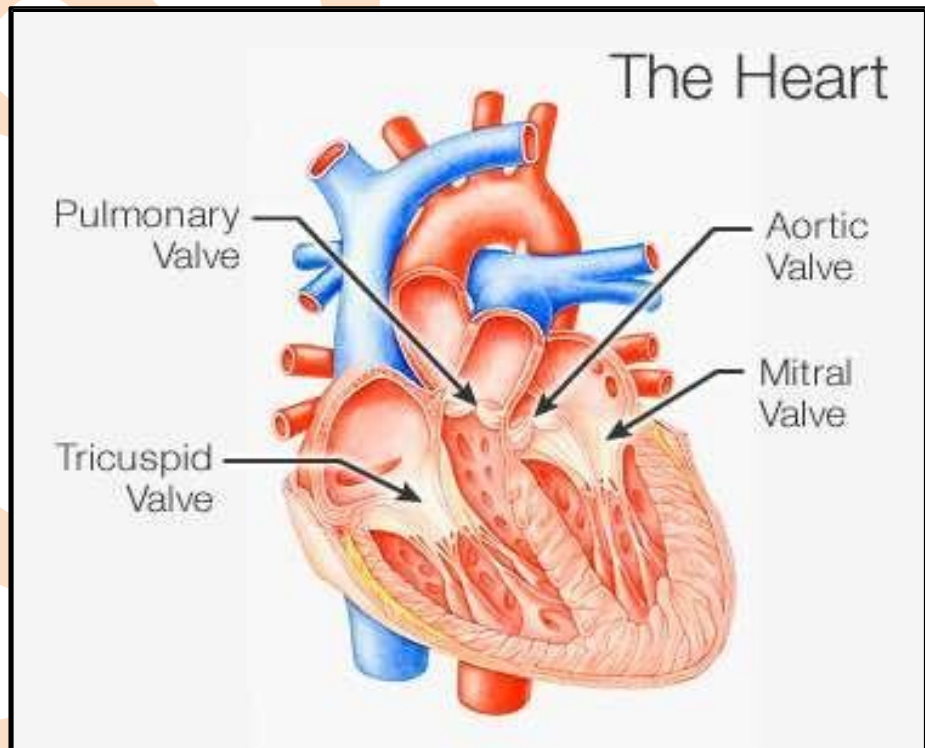
- Its situated between the atria and the ventricle.
- Controls the blood between the left atrium and the left ventricles.



Valves of the Heart contd.,

The pulmonary valve:

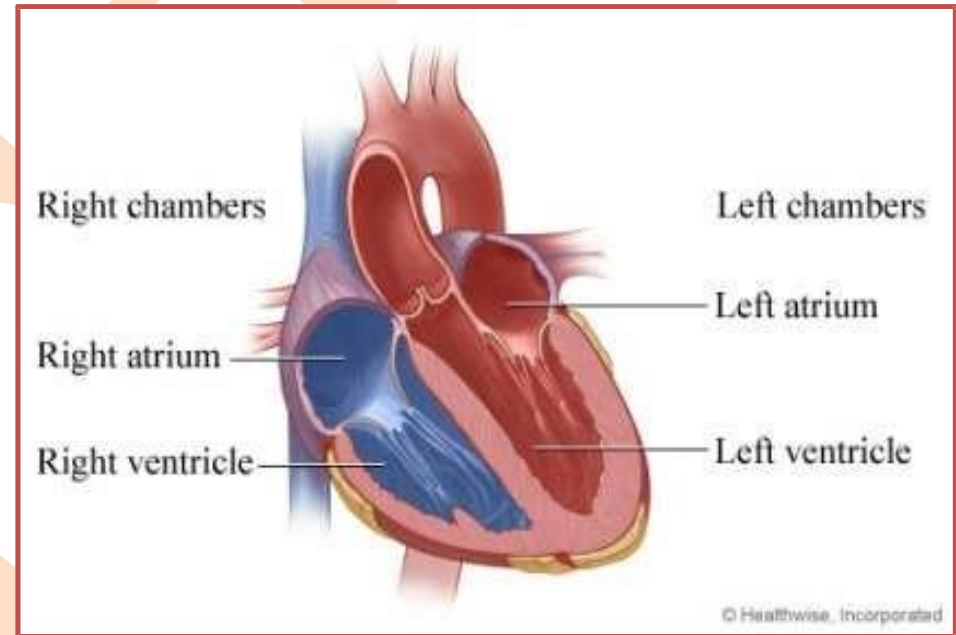
- Its situated between the right ventricle and the pulmonary valve.
- Controls the blood leaving the heart.
- Controls the flow of blood from the right ventricles.
- Prevents blood flow back to the right ventricle.



Valves of the Heart contd.,

The aortic valves:

Controls blood flow between the left atrium and the aorta.



Blood vessels attached to heart

superior vena cava and inferior vena cava.

- They carry venous blood to heart

pulmonary arteries

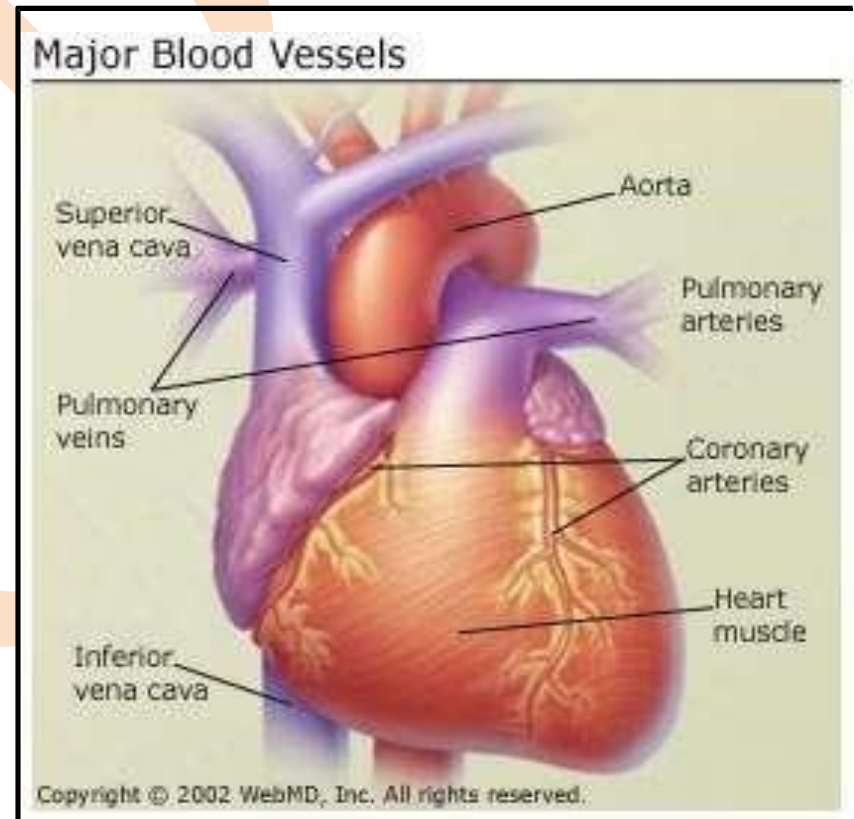
- It carries venous blood to lungs for oxygenation.

pulmonary veins.

- they carry oxygenated blood to heart

Aorta.

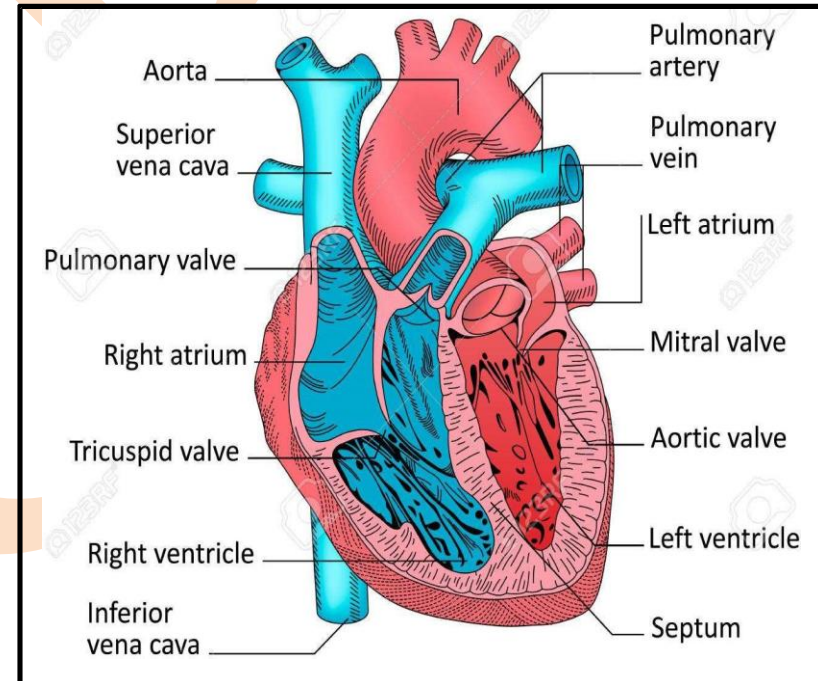
- it delivers pure blood to all parts of the body.



Arterial and venous system

- The heart pumps blood into arteries and,
- The veins return blood to the heart.

So, arteries carry **pure blood** away from the heart. Veins carry **impure blood** to the heart.



IMPORTANT QUESTIONS:

2M QUESTIONS:

- 1) Define Heart and its functions.
- 2) Define ECG.
- 3) Define Cardiac Output.

5M QUESTIONS:

- 1) Explain the physiology and anatomy of heart.
- 2) Explain in details about blood circulation of heart with the help of diagram and conduction system of heart

10M QUESTIONS:

- 1) Explain the physiology and anatomy of heart.
- 2) Explain in details about blood circulation of heart with the help of diagram and conduction system of heart