

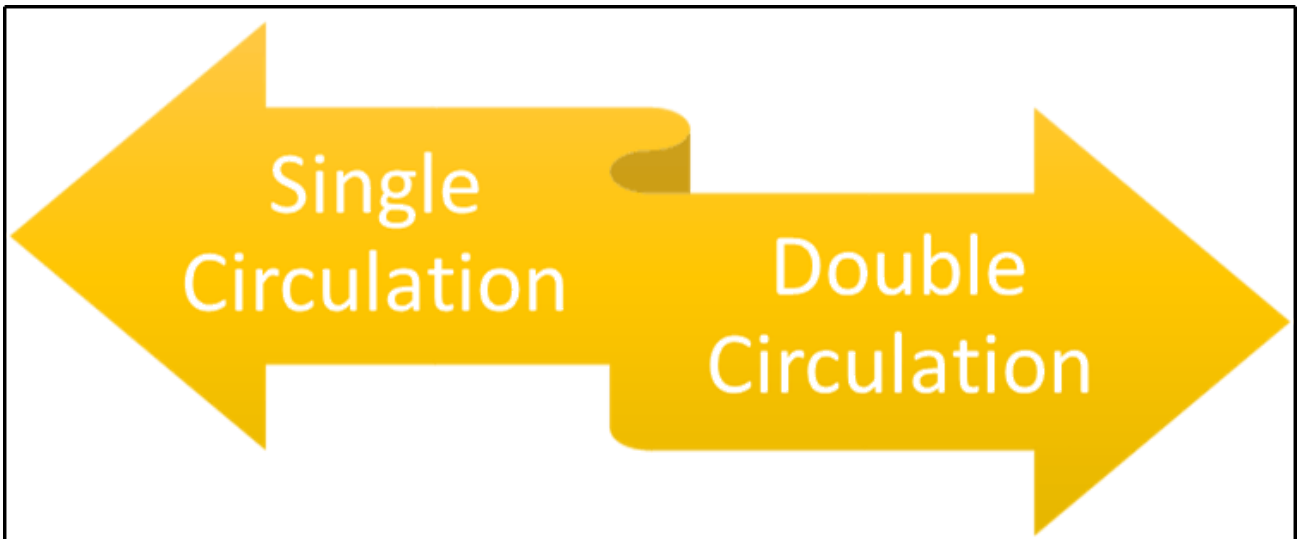
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Double Circulation: Types of Circulatory Systems, Single Circulation (For CBSE, ICSE, IAS, NET, NRA 2022)

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Types of Circulatory System

- Humans just like majority of mammals use a double circulatory system.
- Animals have open circulatory and closed circulatory system.



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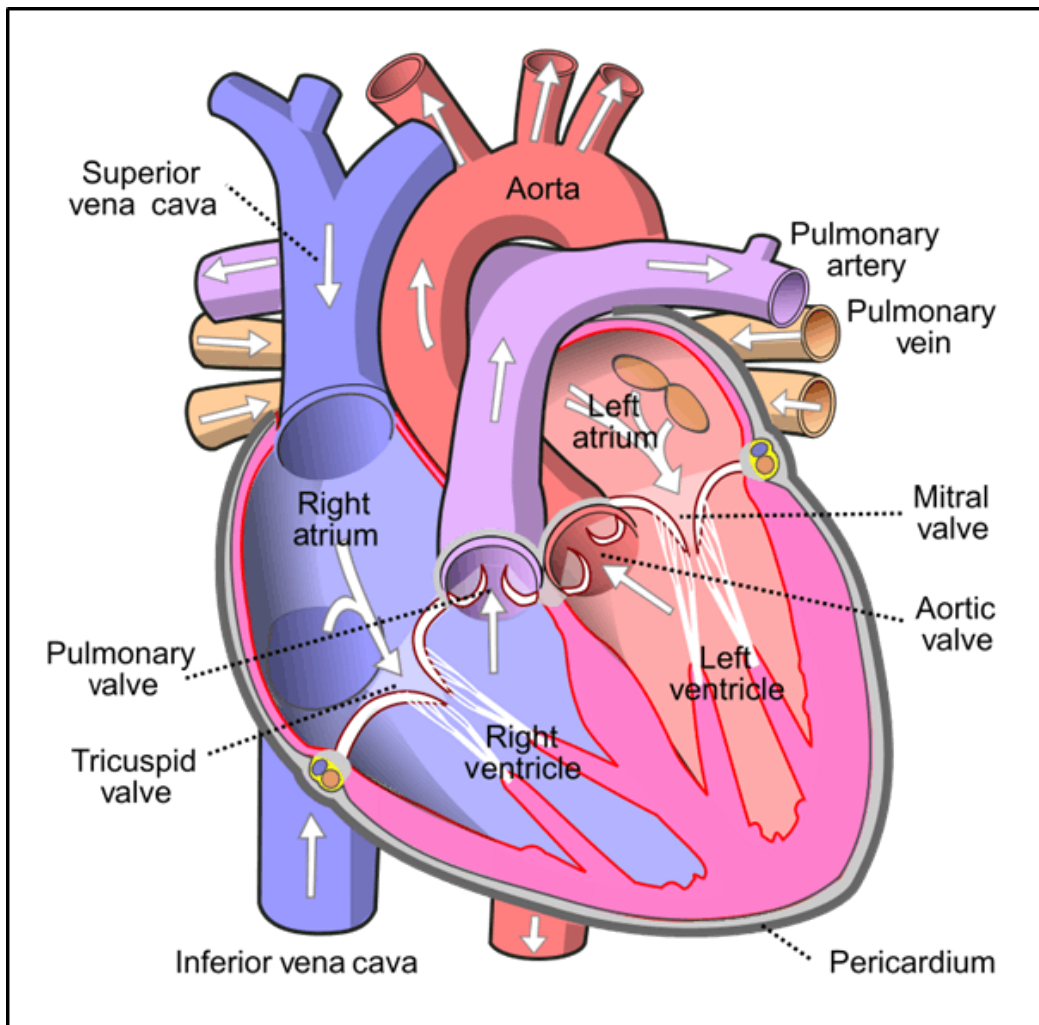
Single Circulation

- The blood will pass through the heart to gills.
- The blood is distributed to the different parts of the body after the purification.
- Due to completion of only one cardiac cycle single circulation has been named.
- Single circulation is observed in birds, fish, reptiles, etc.

Double Circulation

- Double circulation name is because the blood follows two routes one for oxygenated blood and the other for deoxygenated blood.
- Humans make use of the double circulatory system just like many mammals.

Human Heart and Its Division



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Four Chambers

- Left Atria-The left atrium collects blood from the pulmonary veins and ejects it into the left ventricle.
- Right Atria- The right atrium acts as the first chamber of the heart to receive deoxygenated and carbon dioxide-rich systemic blood from the body.
- Left Ventricles- To pump oxygenated blood from the lungs out to the body.
- Right Ventricles- This is responsible for pumping oxygen-depleted blood to the lungs.

FAQs

Q 1. For what reason, the blood circulation in the human heart is called double Circulation?

Answer:

- Since the blood enters twice to the heart and blood escapes twice from the heart via arteries and veins.
- Also due to the presence of four chambered hearts.

Q 2. What is the most important reason for which double circulation in human beings become essential?

Answer:

Double circulation is responsible for allowing the separation of oxygenated and deoxygenated blood in the body.

Q 3. What are the two types of circulation in the human body w. r. t Double circulation?

Answer:

There are two types of circulation in the human body that are responsible for Double circulation.

- Pulmonary circulation.
- Systemic Circulation.

Q 4. List out the names of the four chambers of the heart?

Answer:

Four chambers of the heart are:

- i) Left Atria
- ii) Right Atria
- iii) Left Ventricles
- iv) Right Ventricles