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Class 10th

Subject Biology

Date:- 09.05.21

Respiration in plants

Respiration in plants is simpler than the respiration in animals. Gaseous exchange occurs through :

- (a) Stomata in leaves
- (b) Lenticels in stems
- (c) General surface of the root

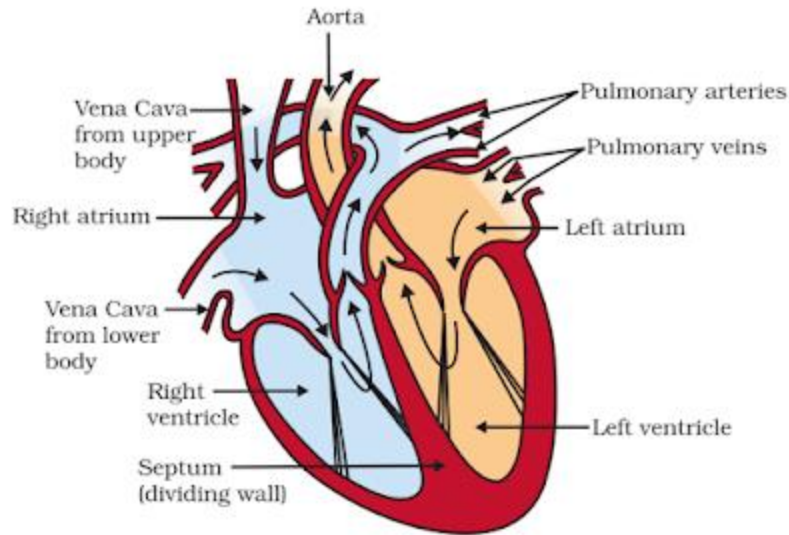
Transportation in Human Beings

Human beings like other multicellular organisms need regular supply of food, oxygen etc. This function is performed by the circulatory system.

→ The circulatory system in human beings consists of:

- (i) Heart (pumping organ)
- (ii) Arteries and Veins (Blood vessels)
- (iii) Blood and lymph (Circulatory medium)

• Circulatory system in human beings



- The lungs supply oxygen-rich blood to the the left atrium of the heart.
- The left atrium relaxes when it is collecting the blood and contracts when blood is transferred to the left ventricle. The left ventricle expands when it receives blood.
- The blood is pumped out of the body when the muscles of left ventricle contracts.
- De-oxygenated blood comes from the body to the upper chamber on the right i.e. the right atrium when it expands.
- The corresponding lower chamber i.e. the right ventricle expands when right atrium contracts. It transfers the blood to the right ventricle which in turn pumps it to the lungs for oxygenation.
- Right ventricles have thicker muscular walls so that they pump blood into various organs.
- Valves ensure that blood does not flow backwards when the atria or ventricles contract.