

WORKSHEET 1

CHAPTER 8 – THE CIRCULATORY SYSTEM

A. Choose the correct option.

- Pulse wave is mainly caused by the
 - systole of atria.
 - diastole of atria.
 - systole of the left ventricle.
 - systole of the right ventricle.
- Normal blood pressure in human is
 - 80/120 mm Hg.
 - 120/80 mm Hg.
 - 100/80 mm Hg.
 - 80/110 mm Hg.
- The opening of right auricle into the right ventricle is guarded by
 - tricuspid valve.
 - bicuspid valve.
 - aortic semilunar valve.
 - pulmonary semilunar valve.
- Double circulation means
 - blood flows twice through the heart.
 - oxygenated and deoxygenated blood is separated.
 - every organ has an artery and a vein.
 - both a. and b.
- Rate of heart beat is controlled by
 - SA node.
 - cranial nerves.
 - sympathetic nerves.
 - spinal nerves.

B. Name the following.

- An unstable bright-red compound formed between haemoglobin and oxygen to carry the oxygen to the body cells.
- The instrument used for measuring heartbeat.
- A genetic disorder in which blood does not clot.
- The blood vessel that supplies oxygen to the heart.
- The fluid that transports fatty acid and glycerol.

C. Fill in the blanks.

- RBCs are _____ shaped.
- The blood vessel supplying blood to liver is _____
- The blood vessel which transport blood from the heart to an organ is called _____
- A full heart beat in human being takes about _____ seconds.
- The blood vessel that begins and ends in capillaries is the _____

D. Mention the function of each of the following.

- Bicuspid valve
- Semilunar valves

Name:

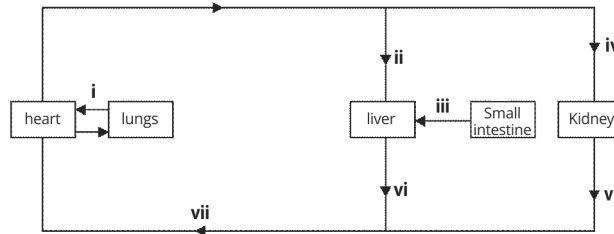
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3. Pulmonary artery
4. Fibrinogen
5. Chordae tendinae.

E. The diagram below represents circulation in the human body. Study the same and answer the questions that follow.



1. Name the blood vessels labelled **i**, **iii**, **vi** and **vii**.
2. Name the blood vessel that supplies the walls of the heart with oxygen.
3. Draw a neat labelled diagram of the blood vessel numbered **ii** as seen in a cross section.
4. Mention one structural difference between blood vessels numbered **iv** and **v**.
5. What do you mean by term double circulation of blood in mammals?

ANSWERS

WORKSHEET 1

A. Choose the correct option.

1. c. 2. b. 3. a. 4. d. 5. a.

B. Name the following.

1. Oxyhaemoglobin 2. Stethoscope 3. Haemophilia 4. Vein 5. Lymph

C. Fill in the blanks.

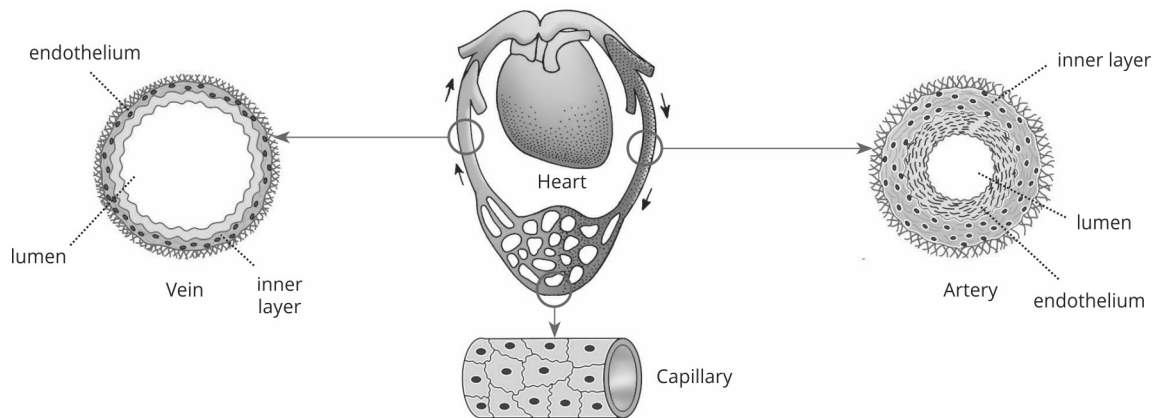
1. biconcave 2. hepatic artery 3. artery 4. 0.8 5. portal vein

D. Mention the function of each of the following.

- It prevents the reverse flow of blood from the left ventricle into the left artery.
- It guards the opening of pulmonary artery and aorta.
- It transports deoxygenated blood from right ventricle to the lungs.
- It is a soluble blood protein required for blood clotting.
- Keeps the cuspid valves in position.

E. The diagram below represents circulation in the human body. Study the same and answer the questions that follow.

- Pulmonary vein
 - Coronary artery
 - Hepatic portal vein
 - Vene cava



4.	Aorta	Vena cava
	Has narrow lumen	Has wider lumen
	Valves are absent in the inner lining	Valves are present

- The circulation of blood in mammals is called double circulation because the blood enters and leaves the heart twice in each heart beat.