

(BOOK 2 - UNIT 11)

TRANSPORT IN HUMANS

FILL IN THE BLANKS:

- 1) In human things are transported around the body in the circulatory system.
- 2) Blood is pumped through blood vessels by the heart.
- 3) The upper two chambers of the heart are called atria.
- 4) Valves prevent the back flow of blood inside the heart.
- 5) Haemoglobin combines with oxygen to make oxyhaemoglobin.
- 6) Plasma is a strawed-coloured liquid.
- 7) Humans have a double circulation.
- 8) Veins carry blood back to the heart.
- 9) A heart attack is a thrombosis in the coronary artery.
- 10) Contraction of atria and ventricle is called heartbeat.

DEFINE THE FOLLOWING:

- a) Double circulation: Double circulation is a process in which blood flows twice through the heart.
- b) Capillaries: Capillaries are extremely small blood vessels located within the tissues of the body that transport blood from arteries to veins.

QUESTION AND ANSWERS:

Q1) Name four things that make up the blood?

- A) Blood is a mixture of a liquid called plasma with red cells, white cells and platelets floating in it.

Q2) Name four things that are transported in the blood plasma?

- A) Blood plasma transports digested food from the intestine, carbon dioxide and urea (waste) from the cells, and hormones from special glands located

around the body.

Q3) Describe how platelets form a blood clot?

A) Platelets help to clot the blood and stop bleeding at cuts. It works as follows:

- 1) Platelets create tiny fibres to form a net across the cut.**
- 2) Red cells are caught in the net forming a clot.**
- 3) The surface of the clot hardens to form a scab.**
- 4) It protects and keeps the cut clean while the new skin grows.**

Q4) Differentiate between arteries and veins?

A)

S. NO.	ARTERIES	VEINS
i.	They are thick walled	They are thin walled
ii.	Arteries have no valves	They have Valves
iii.	Carry oxygenated blood except pulmonary artery	Carry deoxygenated blood except pulmonary vein

GIVE REASONS:

a) Why fresh meat is wet?

Reason: Tissues fluid is mainly water this is why fresh meat looks and feels wet.

b) Why is the blood pressure in arteries is high but low in veins?

Reason: Blood in the arteries is directly pumped by the heart, and has a small lumen, so it has high pressure, while veins have big lumen and carry blood towards heart.

WORKSHEET

The Human Heart

