

De Nobili School, Chandrapura

Std : 5 Chapter -1 Science(The Circulatory System)

Science

A) Answer the following questions :

1) Name the constituents of the blood.

Ans: The constituents of the bloods are:

- Red Blood cells (erythrocytes)
- White Blood cells (leucocytes)
- Platelets

2) Why are WBCs called 'soldiers of the body' ?

Ans: WBC protect the body from infections as

'Soldiers of the body'.

3) State any five functions of the blood

Ans)The five functions of blood are :

- a) Transports oxygen and carbon-dioxide throughout the body.
- b) carries nutrients of digested food.

- c) regulates the body temperature.
- d) transports hormones
- e) carries waste products.

4) Why is blood red in colour ?

Ans: The blood is red in colour due to the presence of red pigment called Haemoglobin.

5) Name the three kinds of blood vessels found in human beings .Mention the function of each of them.

Ans: Three kinds of blood vessels found in human are Arteries , Veins and Capillaries

a) Arteries : carry oxygenated blood from heart to different parts of the body.

b)Veins : carry impure and deoxygenated blood from different parts of the body to the heart.

c)Capillaries: connect arteries to veins.

6) Name the main blood vessels which takes the Blood from the heart to different parts of the body.

Ans: Aorta is the main blood vessels which takes the blood from the heart to different parts

of the body.

- 7) Give any three differences between an artery and a vein .

Ans: The differences between artery and vein are as follows:

Artery :1) Arteries carry blood from the heart of different parts of the body.

2) do not contain valves .

3)Pulmonary artery carries blood from heart to lungs.

Vein:1) Veins carry blood from different parts of the body to the heart.

2) contain valves

3) Pulmonary vein carries blood from lungs.

- 8) What is the rate of heartbeat in a normal adult person ?

Ans: The rate of heartbeat in a normal adult person is 60-100 times per minute.

- 9) Describe the process of blood circulation.

Ans: The circulation of blood includes -:

- a) Blood vessels carry deoxygenated or carbon-dioxide rich blood from different part of the

body to the heart.

- b) The heart pumps the impure blood or deoxygenated blood to the lungs.
- c) The blood vessels from the lungs carry blood containing oxygen to the heart.
- d) The heart pumps the oxygenated blood to all parts of the body.

Questions from chapter :

10) Why living organisms require circulatory system ?

Ans: Living organisms require circulatory system to transports useful and harmful materials from one body part to another.

11) What does the human circulatory system consists of ?

Ans: The human circulatory system consist of blood , blood vessels and heart.

12) Define Blood .

Ans: Blood is red coloured fluid that flows inside the body through blood vessels. It transports nutrients, water, oxygen and carbon-dioxide with in the body.

13) Define Blood Circulation.

Ans: The movement of nutrients, oxygen and Carbon dioxide from the heart to the rest of the body by blood through blood vessels is called blood circulation.

14) Write few differences between Red Blood and White Blood cells.

Ans: The differences between Red blood cells and White blood cells are as follows :

RBC :1) disc shaped

2) small in size

3) red in colour due to red pigment called haemoglobin.

WBC:1) irregular in shape

2) bigger in size

3) colourless

15) What is Platelets ?

Ans: Platelets are colourless round cells, help in clotting of blood to stop bleeding in case of any injury.

16) Define Pulse and Trisection .

Ans: Feeling a light pumping movement of the heart on our wrist is called pulse.

The method of checking the pulse is called trisection.

17) Define heartbeat.

Ans: The rhythmic movement of the heart during pumping blood is termed as the heartbeat.

18) Name the instrument used to find out the blood pressure.

Ans: The instrument used to find the blood pressure is called Sphygmomanometer.

B) Tick the correct option (Page No. 8)

1) Ans : (c) RBCs

2) Ans : (a) Oxygenated blood

3) Ans : (b) help in clotting of blood

4) Ans : (a) haemoglobin

5) Ans : (b) arteries

6) Ans : (c) 60 – 100 times per minute

7) Ans : (b) pulmonary artery

C) Fill in the blanks with the correct words (Page No.9)

- 1) Ans : arteries
- 2) Ans : pulmonary
- 3) Ans : Plasma
- 4) Ans : Ventricles
- 5) Ans : hormone

D) Write True or False :

- 1) Ans : True
- 2) Ans : False
- 3) Ans : True
- 4) Ans : True
- 5) Ans : True