



o) The English Physician who discovered the circulation of blood.

B Fill in the blanks ( 1 mark each)

a) The -----side of the heart receives deoxygenated ( carbon dioxide - rich) blood and the -----side receives oxygenated ( oxygen rich) blood.

b) Birds , Lizards , Snakes excrete a semi solid white coloured compound called

-----

c) Fishes excrete waste substances such as ----- which directly dissolves in water.

d) The major excretory product in human is -----

e) Body temperature is regulated by ----- system.

C Short answer type questions

a) Read the following terms given below: 1 each

Root hairs	Kidney	Veins	Arteries	Phloem	Aorta
Ureters	Xylem	Urinary bladder	Capillaries	Heart	Urethra

Group the terms on the basis of the categories given below:

a) Circulatory system in human.

b) Excretory system in human.

c) Transport of substances in plants.

b) What makes blood look red? 1

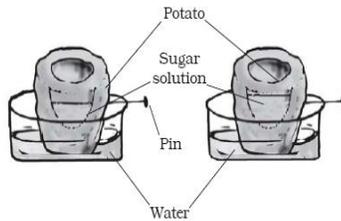
d) Why are white blood cells called soldiers of our body? 1

e) What will happen if there are no platelets in the blood? 2

f) Give two functions of stomata. 2

g) Why is transport of materials necessary in a plant or in an animal? 2

- h) Why do plants wilt on hot summer days? 1
- g) Observe the diagram. How did the level of sugar solution increase inside the potato? 2



- D What are the waste products removed by the following parts? ½ mark each
- Skin
  - Kidneys
  - Lungs
  - Large intestine

- E Match the following: ½ mark each
- | A                     | B   |
|-----------------------|---|
| a) Heart              | (i) can poison an organism                  |
| b) Food & Oxygen      | (ii) materials needed by every living being |
| c) Waste products     | (iii) movement of materials                 |
| d) Carrier of Oxygen  | (iv) blood vessels for transportation       |
| e) Circulation        | (v) a living pump                           |
| f) Arteries and veins | (vi) red blood cells                        |

- F Tom is thirteen years old. He likes fried foods ( chips , french fries , nuggets , burger ) , colas and sweets(cakes , cookies , ice creams) .He doesn't eat enough fresh fruits and vegetables. He likes watching TV and playing computer games when free. He avoids out door games. He is over weight. His doctor says he is at risk of developing heart disease in future. 2

- Is Tom's attitude is right?
- What life – style changes do you suggest for Tom to be healthy?

G Give reason: 2  
Animals such as Sponges and Hydra do not possess a circulatory system.  
Why?

H Complete the following: FUNCTIONS OF HEART ½  
mark  
each

----- carries oxygenated blood from the  
lungs to the ----- .Left atrium pumps  
oxygenated blood into the -----.  
Left ventricle pumps oxygenated blood to all parts of the body through  
----- ( main artery).  
Aorta divides into several branches as -----  
Arteries branch into a network of fine blood vessels called -----  
The capillaries reach all body parts to deliver -----and  
other nutrients to the cells and release energy and , capillaries pick up  
----- and other wastes from the cells  
and join to form ----- . Veins join to form  
----- ( main vein) , which carries this deoxygenated  
blood to the -----and is then sent to the  
-----From the right ventricle the  
deoxygenated blood is pumped through -----  
to the ----- .In the lungs , the blood gets rid of -----  
and takes -----from the air inhaled into the lungs. In this  
way the cycle is repeated throughout the life.

