LIFE PROCESSES

WORKSHEET

1.Rate of breathing in aquatic organisms is much faster than that in terrestrial organisms. Give reasons.

2.Give reasons:

(a) Ventricles have thicker muscular walls than atria.

(b) Circulation of blood in aquatic vertebrates differs from that in terrestrial vertebrates.

(c) During the daytime, water and minerals travel faster through xylem as compared to the night.

(d) Veins have valves whereas arteries do not.

3.(a) Name the basic filtration unit present in the kidney.

(b) Draw excretory system in human beings and label the following organs of excretory system which perform following functions:

(i) form urine

(ii) is a long tube which collects urine from kidney

(iii) store urine until it is passed out

(iv)Name four types of metabolic wastes produced by humans.

4.Stomata remain closed in desert plants during daytime’. How do they do photosynthesis?

5.Why is small intestine in herbivores longer than in carnivores?

6.Diffusion is insufficient to meet the oxygen requirement of multicellular organisms like humans. State reason.

7.What do the following transport?

(i) Xylem

(ii) Phloem

(iii) Pulmonary vein

(iv) Vena cava

(v) Pulmonary artery

(vi) Aorta

8.List in tabular form three differences between arteries and veins.

9.Describe “blood circulation” in human beings.

10.Give reasons:

(a) Ventricles have thicker muscular walls than atria.