	INDIAN SCHOOL MUSCAT CLASS: X SUBJECT: BIOLOGY WORKSHEET-3	

DATE: ……

TOPIC/SUB-TOPIC: LIFE PROCESSES- TRANSPORTATION

Choose the correct answer from the following options:

1. The smallest blood vessel
   a. Vein b.Artery capillary d.Vena cava

2. The component of blood which transports food and carbon dioxide
   a. RBC b. WBC c.Platelets d.Plasma

3. Water and minerals are translocated in the plants through
   a. Phloem b. xylem c.Epidermis d. parenchyma

4. The blood vessel which brings pure blood from lungs to the heart
   a. Pulmonary vein b.Pulmonary artery c.Superior vena cava d.Aorta

5. Choose the organism with two chambered heart
   a. Fish b.Frog c.Snake d. Crow

6. Loss of water from the upper surface of the plants in the form of water vapour
   a. Transportation b. Transpiration c.Diffusion d.None of the above

7. Backflow of blood inside the heart is prevented during contraction by
   a. Thin walls of aorta b.Thick muscular walls of ventricles c. Valves in the heart
   d. All the above

8. Which blood vessels carry blood away from the heart
   a. Vein b. Arteries c. Capillaries d.Venules

9. Name the tissues which transport soluble products of photosynthesis in plants
   a. Phloem b. Epidermis c. Xylem d. Parenchyma

10. The blood vessel which carries oxygenated blood from heart to different parts
    a. Pulmonary artery b. Aorta c. Vena cava Renal vein

Answer the following question

1. Name the fluid medium in present in blood. Write its function.
2. Define transpiration.
3. Why arteries are thick walled?
4. Differentiate the circulation of blood in Fishes and Humans
5. Which chamber of heart receives oxygenated blood and which chamber receives deoxygenated blood?
6. Explain about the transportation system in plants?
7. What do you mean by translocation with respect to transport in plants?
8. Which process in plants creates a force to help water column to rise in plants?
9. Draw a labelled diagram of human heart.
10. Draw a schematic representation of transport and exchange of oxygen and carbon dioxide in man.

Give reasons to the following statements

1. Amphibians can tolerate certain amount of mixing of oxygenated and deoxygenated blood
2. There is unequal thickening in the walls of heart.
3. It is necessary to separate oxygenated and deoxygenated blood in mammals and birds.

Name the parts of the transportation system in human beings which relates to the following functions:

a. Transport of oxygen: …………
b. Carries digested and absorbed fat: ………………………………
c. Exchange of materials between blood and surrounding cell: …………………………
d. Blood clotting: ………………….
e. Protects body against infectious and foreign agents

Differentiate the following

1. Differentiate between blood and lymph in respect of:
   a. Direction of flow
   b. Composition
2. Differentiate artery and vein in respect of
   a. Function
   b. Structure

List below are some of the properties of blood vessels. Separate them into three groups as

1. Arteries 2. Veins 3. Capillaries
   a. Carry blood to the heart
   b. Have thick elastic walls
   c. Oxygen and food pass through the walls
   d. Have valves to prevent the back flow of blood
   e. Carry blood from the heart

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