



# مدرسة جييه اس اس الخاصة JSS PRIVATE SCHOOL, DUBAI

Name: Nielhi Subject: Biology Reg. No.: .....

Topic: Transportation in Animals Date: 16/3/2026

- The functions of blood are as follows:
  - \* Transportation various substances such as oxygen, carbon dioxide, nutrients, and products of metabolism.
  - \* Transports hormones from endocrine glands.
  - \* Regulates the pH
  - \* maintains the water content of the cells
  - \* Adjusts and maintains the body temperature } Thermoregulatory.
  - \* Acts as a reservoir for substances like water, electrolyte etc..
  - \* WBC present in bloods protect us from pathogens
  - \* Detoxification.

3. Arteries	Veins	Capillaries
<ul style="list-style-type: none"><li>- Carry blood from the heart to different parts of the body</li><li>- Carry oxygenated blood except pulmonary artery</li><li>- Deeply seated</li><li>- Valves are absent</li><li>- Have thick walls to withstand high pressure</li></ul>	<ul style="list-style-type: none"><li>- Carry blood from different parts of the body to the heart</li><li>- Carry deoxygenated blood, except pulmonary vein</li><li>- Superficially seated</li><li>- Valves are present</li><li>- Have thin walls.</li></ul>	<ul style="list-style-type: none"><li>- very narrow blood vessels.</li><li>- They connect arteries and veins together</li><li>- The exchange of nutrients, water, oxygen, carbon dioxide etc... between blood and cells take place.</li><li>- Thin wall for diffusion.</li></ul>

4. Capillaries is the site of exchange of material between blood and surrounding cells

5. This is due to the septum. It ~~is the portion~~ separates the ventricles and atria in order to prevent the intermixing of oxygenated and deoxygenated blood. The portion of the septum that separates the right and left ~~set~~ atria (upper chambers) is known as interatrial septum. Whereas, the left and right ventricles (lower chambers) is separated by the interventricular septum. 2

6. In mammals, the blood passes through the heart twice. This is known as double circulation, this ~~is~~ applies to humans and other higher organisms. Whereas, for fishes, they have only two chambers in their heart, therefore blood passes through only once. This is known as single circulation. Their blood is oxygenated in the gills.

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Name: Mick Subject: Bio Reg. No.: .....

The Heart

Date: .....

