

Blood Vessels

A. Choose the Correct Answer:

1. Which type of blood vessel carries blood away from the heart?
 - A) Veins
 - B) Capillaries
 - C) Arteries
 - D) Valves
2. What is the function of veins?
 - A) Carry oxygen-rich blood from the heart
 - B) Carry oxygen-poor blood back to the heart
 - C) Transport nutrients to the cells
 - D) Remove waste directly from organs
3. Which blood vessels are the smallest and connect arteries to veins?
 - A) Capillaries
 - B) Arteries
 - C) Veins
 - D) Valves

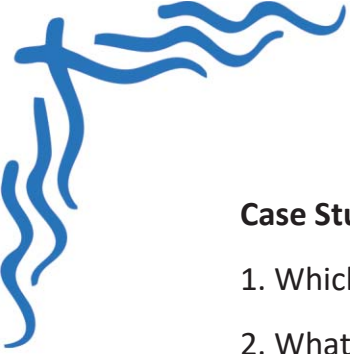
B. Fill in the Blanks:

1. _____ carry oxygen-rich blood from the heart to different parts of the body.
2. _____ are the blood vessels that bring blood back to the heart.
3. The _____ are tiny blood vessels that connect arteries and veins.

C. Case Study:

Amit was curious about how blood moves through the body. His teacher explained the role of blood vessels:

- The arteries carry oxygen-rich blood from the heart to different body parts.
- The veins bring oxygen-poor blood back to the heart.
- The capillaries, which are the smallest blood vessels, allow the exchange of oxygen and waste between blood and tissues.
- The teacher also mentioned that arteries have thick walls, while veins have thin walls with valves.



Case Study Questions:

1. Which blood vessel carries oxygen-rich blood away from the heart?
2. What is the function of veins?
3. Why do veins have valves?
4. What role do capillaries play in the circulatory system?

D. Short Answer Questions:

1. What are arteries, and what is their function?
2. How do capillaries help in the exchange of oxygen and waste?
3. Why do veins have thin walls compared to arteries?

E. Long Answer Questions:

1. Explain the three main types of blood vessels and their functions.
2. Why are arteries thick and elastic while veins have valves?
3. How do blood vessels help in the circulation of blood throughout the body?