



Heart: Structure and Function

A. Choose the Correct Answer:

1. What is the shape of the human heart?

- A) Square
- B) Triangular
- C) Round
- D) Oval

2. Where is the human heart located?

- A) On the right side of the chest
- B) In the center, between the lungs
- C) Below the diaphragm
- D) Near the stomach

3. What are the lower chambers of the heart called?

- A) Auricles
- B) Ventricles
- C) Septum
- D) Valves

B. Fill in the Blanks:

1. The heart is made up of _____ muscle.
2. The left and right sides of the heart are separated by a _____.
3. The contraction and relaxation of the heart chambers is called a _____.

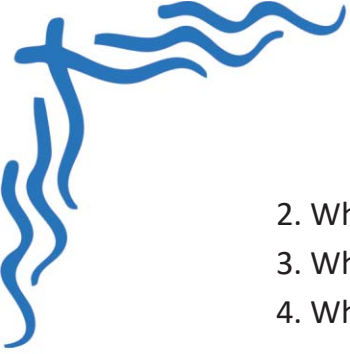
C. Case Study:

Rohan was learning about the human heart in his science class. His teacher showed a diagram of the heart with four chambers.

- She explained that the upper chambers receive blood, while the lower chambers pump it out.
- The teacher mentioned that the heart sends oxygen-poor blood to the lungs to collect oxygen.
- The oxygen-rich blood is then pumped to all parts of the body.
- Rohan also learned that the heart beats faster when a person runs or exercises.

Case Study Questions:

1. How many chambers does the heart have?



2. What happens to the oxygen-poor blood when it reaches the heart?
3. Why does the heart beat faster during exercise?
4. Which chambers pump blood out of the heart?

D. Short Answer Questions:

1. What are atria?
2. How can we feel the heartbeat of a person?
3. What is the function of the septum in the heart?

E. Long Answer Questions:

1. Explain the structure of the heart with the names of its chambers.
2. Describe how the heart pumps oxygen-poor blood to the lungs and oxygen-rich blood to the body.
3. Why is the heart important for the circulatory system?