



# BIOLOGY

## BOOKS - BHARATI BHAWAN BIOLOGY (HINGLISH)

### TRANSPORTATION

#### A Very Short Answer Questions

1. Define translocation.



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2. What do you mean by ascent of sap in plants ?



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3. Which tissue plays the most important role in upward transpiration in plants ?



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4. Name the vascular tissue which transports food from the leaves to different parts of plant.



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5. Name the three types of blood corpuscles.



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6. Why are red blood cells red in colour ?



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7. What is the main function of white blood cells ?



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8. Which blood vessels bring oxygenated blood from the lungs to the left atrium ?



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## B Short Answer Questions

1. How is water absorbed by the roots of plants ?



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2. Differentiate between an artery and a vein.



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**3.** Why is RBC suitable for transport of oxygen in the body ?



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**4.** Name the constituents of blood. White blood corpuscles are called the 'soldiers' of the body. Why ?



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5. Describe the process of blood clotting.



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6. LYMPH



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7. What is plasma ?



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**8.** Write one function each of the following components of the circulatory system in humans.

(a) Blood vessels , (b) Blood platelets

(c )Lymphy , (d) Heart



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## **C Long Answer Questions**

**1.** Describe the structure of human heart.





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2. Mention any five functions of blood.



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## D Objective Questions

1. In plants, the transportation of food materials is carried out by

A. xylem

B. phloem

C. root hair

D. palisade cells

**Answer: B**



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2. Explain how water and minerals are transported in plants?

A. xylem

B. phloem

C. leaves

D. lenticels

**Answer: A**



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**3. The capillaries join to form**

A. arterioles

B. arteries

C. veins

D. venules

**Answer: D**



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**4. What is blood pressure ?**

A. The pressure of blood on the heart muscles

- B. The pressure of flow of blood exerted on the walls of arteries and veins
- C. The pressure of blood on the walls of veins only
- D. The pressure of blood on the walls of arteries only

**Answer: D**



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5. Which of the following blood vessels have thick, elastic walls ?

A. Veins

B. Capillaries

C. Arteries

D. All of these

**Answer: C**



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**6. Which of the following animals has a single circulation system ?**

A. Frog

B. Bird

C. Crocodile

D. Fish

**Answer: D**



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7. Blood is a .....tissue



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8. The iron-rich compound in RBCs is \_\_\_\_\_

.



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9. The normal blood pressure of a young person of \_\_\_\_\_ .





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10. Blood pressure is measured by



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**Very Short Answer**

1. Which chamber of the heart receives impure blood from the body ?



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2. Where does blood go from the right ventricle ?



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3. What is the function of heart valves ?



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4. What is the relation between heart and lungs ?



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5. Define single heart .



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6. Define double heart.



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7. Define transitional heart.



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## Short Answer

1. Differentiate between an artery and a vein.



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2. Differentiate between atrium and ventricle .



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3. Write down the essential features of fish heart.



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4. Mention the role of pacemaker in human heart.



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5. What is the role of haemoglobin in transport ?



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**Long Answer**

1. Why is the advantage of having four chambered heart ?



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## Objective Question

1. Which of the following is/are correct about heart ?

A. Left ventricle receives pure blood.

B. Right ventricle pumps impure blood.

C. Left atrium has thicker wall than the right ventricle.

D. Right atrium opens into the left ventricle.

**Answer: a,b**



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2. When heart contracts to pump blood, the flow has to be unidirectional. This is ensured by



A. valves

B. muscles

C. SA node

D. Pericardium

**Answer: a,b**



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**3. Single circulation is shown in which group ?**

A. Sharks, whales

B. Flying fish, bats

C. Tree frogs, Climbing perch

D. Gold fish, carps

**Answer: d**



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**4. Double circulation can be seen in**

A. turtle

B. chimpanzee

C. boa

D. dog

**Answer: b,d**



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**5. which is/are incorrect ?**

A. Right ventricle has the thickest wall.

B. Left ventricle has the thickest wall.

C. Valves are located in the left side.

D. Pacemaker lies in the right side of the heart

**Answer: a,c**



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**6. What is correct about pulmonary artery ?**

- A. It contains pure blood.
- B. It contains impure blood.
- C. It sends blood to the gills.

D. it sends blood to the walls of the heart.

**Answer: b,d**



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**7. What is correct about pulmonary vein ?**

A. It supplies blood to the valves.

B. It is the longest vein.

C. It has pure blood that comes from the  
liver.

D. It brings pure blood to the left atrium .

**Answer: D**



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**8. How is a vein different from an artery gt?**

A. In carrying deoxygenated blood

B. In having greater elasticity

C. In having valves

D. All of the above

**Answer: d**



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**9. Pacemaker of the heart is**

- A. nervous tissue
- B. situated in the left atrium
- C. muscular tissue
- D. none of the above

**Answer: c**



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**10. Heartbeat depends upon**

- A. size of the animal
- B. physical activity
- C. pacemaker
- D. All of the above

**Answer: d**



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## Fill In The Blanks

1. Hear is situated in the middle of the \_\_\_\_\_  
cavity



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2. The membrane that surrounds the heart is  
called \_\_\_\_



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3. Right side of the heart contains \_\_\_\_ blood.



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4. Heart of fish pumps \_\_\_\_ blood, whereas the heart of bird pumps \_\_\_\_ blood.



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5. Heart is largely composed of \_\_\_\_ muscles.



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6. Valves prevent \_\_\_\_ flow of blood and are also present in \_\_\_\_\_



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7. Cardiac cycle is divided into \_\_\_\_ and \_\_\_\_\_ phase.



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8. Crocodiles have\_\_\_\_\_ heart, but in turtles the heart is \_\_\_\_\_



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**True T Or False F**

1. Arteries are more muscular than veins



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2. Blood capillaries are lined with cuboidal cells.



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3. Cardiac muscles are voluntary



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4. Pericardial fluid is called lymph.



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5. In fish, the heart receives only pure blood.



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6. The velocity of blood in veins is greater than that in arteries.



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7. Lymph and plasma have the same chemical composition.



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**Put Tick Marks In Appropriate Boxes**

1. 



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