



BIOLOGY

BOOKS - PEARSON IIT JEE

FOUNDATION

**TRANSPORTATION IN PLANTS AND
ANIMALS**

Quick Recap

1. What is the difference between diffusion and osmosis?



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2. What are xylem and phloem?



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3. How does open circulatory system differ from closed circulatory system? Give example

for each.



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4. What are capillaries?



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5. Give a note on heart failure.



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Test Your Concepts Fill In The Blanks

1. In plants, food transport takes place through _____



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2. Specialized openings present on leaves are called _____



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3. Absorption of water by root hair involves



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4. Sieve tube elements are part of _____



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5. Plants synthesize food by the process of

.....



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6. The device used to check heart beat is _____



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7. The condition characterized by high blood pressure is _____



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8. The artery that carries impure blood is



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9. Fish heart has _____ chambers.



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10. The main artery that carries pure blood is



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11. Reptilian heart contains _____



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12. Colourless fluid that takes part in material transport in insect is _____



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13. The concave disc-shaped blood cell is _____



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14. Blood from right atrium reaches _____



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15. The artery that carries impure blood from heart to lungs is _____



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Test Your Concepts Select The Correct Alternatives

1. The transport through xylem is _____ and transport through phloem is _____

- A. both unidirectional
- B. both bidirectional
- C. bidirectional and unidirectional
- D. unidirectional and bidirectional

Answer: D



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2. The green pigment present in plants is called _____

A. chlorophyll

B. haemolymph

C. chloroplast

D. haemoglobin

Answer: A



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3. The main driving force behind the upward movement of water through xylem is _____

- A. guttation
- B. transpiration
- C. pressure flow
- D. None of these

Answer: B



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4. Which of the following is a correct statement?

A. Transpiration involves loss of water in the form of liquid.

B. Guard cells are the specialized opening through which transpiration occurs.

C. Transpiration provides a cooling effect to plants.

D. Transport of water through phloem is unidirectional

Answer: C



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5. Movement of water molecules from higher concentration to lower concentration through semi permeable membrane is called _____

A. osmosis

B. diffusion

C. transpiration

D. Both (b) and (c)

Answer: A



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6. Heart of fish contain:

A. One atrium and one ventricle

B. Two atria and one ventricle

C. Two atria and two ventricles

D. One atrium and two ventricles

Answer: A



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7. The major veins that carry impure blood from various body parts to heart is/are _____

A. inferior vena cava

B. aorta

C. superior vena cava

D. Both (a) and (c)

Answer: D



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8. Aorta carries pure blood from:

A. Left ventricle to body parts

B. Body parts to right atrium

C. Body parts to left atrium

D. Right ventricle to other body parts

Answer: A



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9. Pulmonary vein carries blood from:

A. Heart to lungs

B. Lungs to heart

C. Heart to various body parts

D. Other body parts to heart

Answer: B



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10. The heart of a crocodile consists of

A. One atrium and two ventricles

B. Two atria and one ventricle

C. One atrium and one ventricle

D. Two atria and two ventricles

Answer: D



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Mastering The Concepts Knowledge And Understanding

1. What is transpiration? Name the cells that regulate transpiration.



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2. Define stomata.



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3. Differentiate between xylem and phloem.



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4. What are the various elements of xylem and phloem?



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5. Differentiate between artery and vein.



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6. What is blood and what are the various components of blood?



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7. 'All arteries do not carry oxygenated blood'.

Justify the statement.



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8. What is pulse rate? What does low heart beat indicates?



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Mastering The Concepts Application And Analysis

1. Explain the process of food transport in plants.



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2. 'Water transport through xylem is unidirectional'. Justify the statement.



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3. Explain the blood circulation in humans.



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4. Why do sponges not have blood?



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5. Is the process of transpiration useful to the plants?



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6. Platelets are found in blood along with RBCs and WBCs. What will happen if they are removed from the blood?



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7. Arteries have thick walls than veins. Justify.



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8. Why do only veins have valves and not arteries?



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