



BIOLOGY

BOOKS - VGS BRILLIANT BIOLOGY (TELUGU ENGLISH)

TRANSPORTATION

Conceptual Understanding

1. What is transport system ? How does this help to the organism?



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2. What is the importance of transport system in the organisms?



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3. What is the relationship between blood and plasma?



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4. What is the relationship between blood and plasma?



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5. Which type of blood vessels carry blood away from the heart?



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6. Which blood vessels carry blood from heart to body parts?



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7. What are the three main types of blood vessels in the body?



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8. Which is the largest artery in body? Why it is big in size?



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9. Which blood vessel carries blood for oxidation?



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10. Name the structures which are present in veins and lymph ducts and absent in arteries.



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11. What is the use of platelets?



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12. Difference between systolic and diastolic blood pressure is



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13. Write differences between

Veins - Arteries ?



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14. Write differences between

Xylem - Phloem ?



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15. Explain the way how plants get water by osmosis through root hair?



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16. Explain the way how plants get water by osmosis through root hair?



Watch Video Solution

17. Explain the way how plants get water by osmosis through root hair?



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18. What is root pressure ? How is it useful to the plant?



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19. Phloem is a food source for some animals.

How can you justify this statement?



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20. Read the given para and name the parts of the heart?

"We have observed that the heart is divided into four chambers by muscular structure. Any structure that divides two chambers is known as septum. Now let us try to name the septa

present in the heart".

The septum that divides the two atria can be named as.....



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21. The septum that divides the two ventricles can be named as.....



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22. The septum that divides the atrium and ventricle can be named as.....



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23. "The holes that connect two chambers are called apertures. Let us try to name the apertures which connect the atria and ventricles".

The aperture that is connecting the right

atrium and right ventricle can be named
as.....



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24. The aperture that is connecting the left
atrium and left ventricle can be named
as.....



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25. "Any structure that closes an aperture, and allows one way movement of materials is called valve. Now let us name the valves that are present in the chambers of the heart".

The valve that is present between left atrium and left ventricle can be named as.....



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26. The valve that is present between right atrium and right ventricle can be named

as.....



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Asking Questions And Making Hypothesis

1. If the valves in veins of the legs fail to stop the flow of blood, what could be the consequences of this failure?



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2. What will happen if cell sap of root hair cells contain high concentration of ions?



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Experimentation And Field Investigation

1. John prepared stethoscope with paper cup and plastic tube. Write down the procedure of preparation?



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2. How can you prove that the water transport through the xylem?



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3. What is your inference about experiments with aphids?



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1. Collect information about blood pressure of your school teachers or your neighbours and prepare a report on their health problems?



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Communication Through Drawing Model Making

1. Draw a block diagram to explain single and double circulation. Write differences between them?



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2. Prepare a block diagram showing from water absorption by roots to transpiration by leaf?



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Appreciation And Aesthetic Sense Values

1. What do you want to compare with the transportation in blood vessels in man?



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2. How do you feel about transportation of water in huge trees?



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Application To Daily Life Concern To Biodiversity

1. Prepare a cartoon on heart beating?



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2. After reading this lesson, what precautions would you suggest to your elders about edema?



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Activities

1. How can you find out your pulse rate ?



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2. How do you observe the pulse rate of classmates?



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3. How do you observe the pulse rate of classmates?



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4. In the experiment of anaerobic respiration with yeast

What did you understand about anaerobic respiration?



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5. When do you think that our pulse rate goes up?



[Watch Video Solution](#)

6. What does the pulse rate show?



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7. How do you observe the pulse rate of classmates?



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8. What activities will you do to find relation between heart beat and pulse rate?



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9. What is the relationship between the heart beat and the pulse?



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10. Can we say, the pulse rate is always equal to the heart beat?



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11. How do you observe the mammalian heart?



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12. What precautions you have to take in the observation of internal structure of

mammalian kidney?



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13. Write your observation of blood flow in arteries and veins?



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14. How is water absorbed into the roots?
Explain with an experiment?



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15. Explain the way how plants get water by osmosis through root hair?



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16. Describe an experiment to demonstrate root pressure in plants?



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Questions Given In The Lesson

1. Is the thickness of the wall of the heart uniform throughout?



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2. How many chambers are present in the heart ? What are they?



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3. Are all the chambers connected to each other?



Watch Video Solution

4. Are all the chambers connected to each other?



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5. What are the other differences could you observe between the chambers?



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6. How are they connected to each other? How are they separated?



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7. Do you find any specific observation in between two chambers?



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8. How many times did your pointer touch the heart in fig. - 11(a) and (b)?



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9. What is the mechanism behind this?



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10. Are root directly in contact with water?





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11. How is water absorbed ?



Watch Video Solution

12. Is there any increase in the water level?



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13. What is the role of xylem?





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14. What is the number of blood vessels attached to the heart?



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15. Are all the blood vessels right ? How many of them are rigid?



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16. Do you think that the stiffness/rigidity of blood vessel is something to do with circulation?



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17. Why do our legs swell?



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18. Is there anything like that in plants which corresponds to circulatory system?



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19. Answer the following after reading the experiment conducted by William Harvey in textbook page no. 54 & 55.

In which blood vessels valves are found ? What do you think is the function of the valves in them?



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20. Why do subcutaneous blood vessels bulge on the side away from the heart when the hand is tied?



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21. The deep seated blood vessels bulge on the side towards the heart when tied. What do you understand from it?



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22. There are valves in the heart between atria and ventricles. Is the purpose of valves in the veins and arteries same?



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23. After reading the experiments by Harvey fill in the following table. Use the clues/options given in the first column?



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Think Discuss

1. Artery walls are very strong and elastic.

Why?



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2. Why do compare arteries like tree which divides into smaller and smaller branches?



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3. Why do veins have thin walls as compared to arteries ?



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4. The term reproductive health refers to

A. Heart

B. Vein

C. Lymph

D. Capillary

Answer: A



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5. On which side of the human heart is low in oxygen?

- A. Left ventricle
- B. Right ventricle
- C. Left atrium
- D. Right atrium

Answer: A::B::D



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6. Which structures of the heart control the flow of the blood?

A. Arteries

B. Veins

C. Valves

D. Capillaries

Answer: C



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7. Which of the following opinions is correct?

A. Ravi said xylem and phloem cells arranged one upon the other to form a tube like structure.

B. John said xylem and phloem are not separate tube like structures.

C. Salma said, xylem and phloem cells connect together to form tube like structure.

D. Hari said because of its shape they said to be tube like structure.

Answer: C



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8. An aphid pierces its proboscis into the.....to get plant juices?

A. Xylem

B. Phloem

C. Cambium

D. Vascular bundle

Answer: B



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Creative Questions For New Model Paper

1. Identify the labelled part 'x' in the above figure?



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2. Name the type of circulatory system shown in the above figure?



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3. Name the type of circulatory system shown in the above figure?



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4. The above figure is associated with which system?



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5. Name the instrument shown in the above figure?



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6. What is the use of above shown instrument in the figure?



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7. What process do you observe in the above picture?



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8. Identify the labelled part 'x' in the above figure?



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9. What do you prove by this experiment?



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10. What phenomenon do you observe in the above figure?



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11. From which part of the plant body does the aphid is getting it's food ?



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12. Identify the scientist with the help of the following paragraph?

"He dissected the hearts of dead people and studied the valves between each atrium and its ventricle."





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13. Identify the scientist?

"He found that in one hour, the heart pumped out a quantity of blood that was three times the weight of a man."



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14. Name the scientist, who conducted studies on the wings of bat to observe blood capillaries?



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15. Observe the following classification and complete the blank?



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16. Observe the classification and complete the blank ?





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17. Observe the flow chart and complete the blank?



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18. We are the microscopic vessel made of single layer of cells. We allow diffusion of various substances. We establish connection between arteries and veins. Who are we?



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19. I collect blood from the body parts. I have valves and blood pressure is low. Who am I?



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20. I distribute blood to the body parts from heart. I have no valves. I have high blood flow pressure. Who am I?



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21. I transport water and minerals from roots to the apical parts of the plant. Who am I?



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22. I transport food materials from the leaves to growing parts of the plant. I have sieve tubes and sieve cells. Who am I?



Watch Video Solution

23. I am the middle man of the bldy. I help in assimilation of digested food. I am responsible for causing edema. Who am I?



Watch Video Solution

24. I am a part of blood. I am responsible for blood coagulation. Who am I?



Watch Video Solution

25. I am the pargest artery of our body to supply platelets. I start the process of blood coagulation. Who am I?



Watch Video Solution

26. I am an enzyme. I secreted from the blood platelets. I start the process of blood coagulation. Who am I?



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27. I supply blood to the heart muscles. Any blockage in the leads to heart attack. Who am I?



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28. Identify the mismatched pair.

- 1) Double circulation - Man
- 2) Single circulation - Fish
- 3) 13 -chambers - Frog.



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29. Identify the mismatched pair.

- 1) Blue coloured blood - Snake
- 2) Red coloured blood - Monkey
- 3) White coloured blood - Cockroach.



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30. Identify the mismatched pair.

- 1) Xylem - Transport of food
- 2) Phloem - Transport of water

3) Root pressure - Push the water in the conducting vessels.



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31. Identify the mismatched pair.

1) Blood platelets - Blood coagulation

2) Lymph - Middle man

3) Haemoglobin - Transport oxygen only.



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32. Complete the blanks ?

In blood.....pigment is present. It helps in transportation of gases. When, it combines with oxygen to form.....



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33. The valve that is present between right atrium and right ventricle is called..... The valve that is present between left atrium and right ventricle is called.....





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34. Marcello Malpighi studied.....and discovered the micro blood vessels called.....



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35. Veins have.....to provide one way direction of flow. The blood pressure in veins is.....



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36. The normal blood pressure in man is..... It is measured with an instrument called.....



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37. Read the sentence, find the error and rewrite it.

The yellowish straw coloured fluid portion after formation of the clot is plasma?



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38. Blood coagulation sometimes become delayed due to the deficiency of vitamin C.



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39. Haemophilia is a vitamin deficiency disorder?



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40. Thalassemia is the disease in which high percentage of haemoglobin is present?



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41. In elder it will be clear that the lower part of the leg will be swollen. It is called blood pressure.



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42. Observe the following placards. In which occasion will you use these placards?



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43. Observe the following placards. Can you suggest one occasion to use them in your school?



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44. I am an anticoagulant of blood. I can stop the clotting of blood inside the blood vessels.
Who am I?



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45. I am always the companion of doctor. Doctors can hear the heart beat with my help.
Who am I?



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46. Expand B.P.



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47. Expand E.C.G.



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48. Expand W.B.C.



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49. Expand R.B.C.



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50. Which of the following group, represent the correct pathway of blood flow in human body?

A) Body parts → Left atrium → Left ventricle → Lungs → Right atrium → Right ventricle → Aorta.

B) Body parts → Right atrium → Right

ventricle → Lungs → Left atrium → Left
ventricle → Superior vena cava.



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51. Stuy the following pairs.

- a) Stethoscope - Rene Laennec
- b) Blood pressure - Thermometer
- c) Amoeba - Brownian movement

Identify the mis-matched pair?



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52. Which of the following statements are true?

- 1) Arteries have thick walls.
- 2) Arteries carry blood from heart to body parts.
- 3) Arteries have low blood pressure.
- 4) Pulmonary artery carries Oxygenated blood.



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53. Name the enzyme that involves in the conversion of fibrinogen into fibrin?



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54. Valves play special role in the circulatory system. They cannot allow the reverse flow of blood. Which of the below vessels have valves?



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55. Write missing words (A) & (B) from following flow chart.





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56. Read below sentence. Identify in which part it is wrong. Explain with suitable word.

Unicellular like amoeba transport of substances takes place by means of Brownian movements.



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57. What phenomenon do you observe in this figure?



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58. Arrange the flow chart in the correct order.



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59. Identify the mismatched pair.

1) WBC → Oxygen transportation

2) RBC → Microscopic policeman

3) Platelets → Blood coagulation.



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60. Can you indentify the structures of transport system?



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61. Complete this flow chart.



View Text Solution

62. Complete the missing part.



View Text Solution

63. In this picture of heart, 'X' denotes?



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64. Identify the mis-matched pair.

- 1) Heart beat of new born - 100 -150
- 2) Heart beat of athlete - 60-100
- 3) Heart beat of an adult man - 90-100.



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65. What is the process going on in the above picture?



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66. In the experiment, which is responsible for the increase in the water level in the stem?



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67. Identify the mis-matched pair.

- 1) 2 chambered heart - Fish
- 2) 13 chambered heart - Snake
- 3) 4 chambered heart - Elephant.



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68. Earthworm : Pulsative vessel,

Arthropods :?



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69. Identify the mismatched pair.

1) Middle Man of the body - WBC

2) Fabrici - Wings of the bat

3) Harvey - blood circulation in human beings.



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Preparation Questions For The Examination Purpose

1. What is the heart beat rate in infants (3 -4 months)?



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2. What is the heart beat rate in infants (3 -4 months)?



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3. What is the heart beat rate in infants between 6 -12 months?



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4. What is the heart beat rate in children aged between 1 -10 years?



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5. What is the normal heart beat rate is adults?



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6. What is the heart beat rate in well trained adults and athletes?



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7. Who invented stethoscope?



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8. What is the blood pressure in a normal healthy man?



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9. Name the scientist who noticed valves in the leg veins for the first time?



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10. Name the outer protective membrane of heart?



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11. Doctors measure the blood pressure with a device. What is it?



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12. Name the chambers of our heart?



Watch Video Solution

13. If transportation does not take place in plants, what process will not occur?





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14. Where can we observe single circuit blood circulation?



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15. Name the part that is associated with transport of water in plants?



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16. Which part in the plants is involved in the transportation of food materials?



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17. What materials do you require in the preparation of an apparatus to know the pulse rate?



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18. Name the enzyme that involves in the conversion of fibrinogen into fibrin?



Watch Video Solution

19. What percaution do you take while conducting the experiment on root pressure?



Watch Video Solution

20. Abhi's heart beat is 72 per minute. Then what is his pulse rate?



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21. Name the vitamin responsible for the coagulation of blood.



Watch Video Solution

22. When does the heart beat start in the human embryo?



Watch Video Solution

23. What happens if haemoglobin is absent in blood?



Watch Video Solution

24. ____ play an important role in blood clotting



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25. What is shape of human heart?



Watch Video Solution

26. Name the blood vessels that supply blood in the walls of heart?



Watch Video Solution

27. What is the number of blood vessels attached to the heart?



Watch Video Solution

28. Which is the largest artery in body? Why it is big in size?



Watch Video Solution

29. Name the blood vessel that supplies oxygenated blood to the heart from lungs?



Watch Video Solution

30. Where do superior and inferior vena cava open into?



Watch Video Solution

31. Where do pulmonary vein which carries oxygenated blood open into?



Watch Video Solution

32. Aorta which supplies oxygenated blood to the body parts arise from?



Watch Video Solution

33. Pulmonary artery which supplies deoxygenated blood to lungs arise from?



Watch Video Solution

34. What is the location of mitral valve?



Watch Video Solution

35. What is the time taken to complete one cardiac cycle?



Watch Video Solution

36. During rest, what is the rate of heart beat in human beings?



Watch Video Solution

37. Where can we observe the protoplasmic movements called Brownian movements?



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38. In which animals, the digestive system is highly branched and supplies digested food to all cells directly?



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39. Pseudocoelom has taken up the function of collection and distribution of food materials. In which organisms you can observe this?



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40. Which part of Hydra enables the transportation of food?



Watch Video Solution

41. Where do you observe 13 -chambered heart?



Watch Video Solution

42. What are the first Eucoelomate animals?



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43. The transportation in earthworm is aided by?



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44. Name the transportation system that supplies nutrients to the tissues directly?



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45. Where can you observe the open type of circulatory system?



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46. Name the type of transport system where the blood takes the responsibility of delivering the materials, which flows in the blood vessels?



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47. Give examples for closed type of circulatory system?



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48. What is the time taken for the supply of 1ml of blood from heart to a foot and back in human beings?



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49. What occupies the space between the pleural membranes of the lungs?



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50. Name the muscles that help in that pushing of lymph flowing in the lymphatic vessels towards the heart?



Watch Video Solution

51. Name the enzyme that is released by platelets when we got an injure and the blood came out?



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52. What is the genetic defect in which the blood may not coagulate?



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53. What is the part that emerges out of the germinating seed?



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54. Name the mammals that scratch the bark of trees to get food stored in the phloem?



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55. Identify the scientist?

"He found that in one hour, the heart pumped out a quantity of blood that was three times the weight of a man."



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56. Name very fine the blood vessels that connect the smallest arteries and veins in our body?



Watch Video Solution

57. What is the active stage of a cardiac cycle?



Watch Video Solution

58. What is the time needed for atrial contraction?



Watch Video Solution

59. Name the factors responsible for high transpiration rate in plants?



Watch Video Solution

60. What is the reason for the heart beat?



Watch Video Solution

61. What is "the middle man of the body"?



Watch Video Solution

62. In which part of our body, the blood pressure is measured?



Watch Video Solution

63. What happens in systole?



Watch Video Solution

64. Name the straw coloured fluid portion after formation of blood clot?



Watch Video Solution

65. What plays an important role in the absorption of water?



Watch Video Solution

66. 'The avaporation of water through stomata of leaves takes place". What do you call this phenomenon?



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67. Who gave the detailed account of blood circulation in human beings?



Watch Video Solution

68. What is responsible for the continuous column of moving water in Xylem vessels?



Watch Video Solution

69. Name the scientist, who conducted studies on the wings of bat to observe blood capillaries?



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70. The valve that is present between right atrium and right ventricle can be named as.....



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71. What is the valve present on the left auriculo ventricular septum between left atrium and left ventricle?



Watch Video Solution

72. What method do you suggest to control high blood pressure?



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73. The normal blood pressure in man is 120/80 mm of Hg. What does 120 in this value represent?



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74. 'The normal B.P in man is 120/80 mm/Hg''

What does 80 in the value represent?



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75. Where do Aphids get their food?



Watch Video Solution

76. What is responsible for the transpiration stream in very tall plants like Red wood?



Watch Video Solution

77. In elders, the lower part of the leg will be swollen. What do you call this condition?



Watch Video Solution

78. What is the time needed for the ventricular contraction?



Watch Video Solution

79. Is there any relation between weight of the body and heart beat rate ?



Watch Video Solution

80. How many chambers are present in the heart of blue whale?



Watch Video Solution

81. Name very fine the blood vessels that connect the smallest arteries and veins in our body?



Watch Video Solution

82. In which animals, the digestive system is highly branched and supplies digested food to all cells directly?



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83. Which has taken up the function of collection and distribution of materials in Nematyhelmenthes?



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1 Mark Questions

1. What happens if blood platelets are absent in blood?



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2. Two person's blood Pressure is like this:



Whose blood pressure is high? What does it indicate?



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3. When do you think that our pulse rate goes up?



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4. How does lymph differ from blood?



Watch Video Solution

5. List out the materials you have used to observe the goat heart in your laboratory?



Watch Video Solution

6. List out the apparatus required to conduct root pressure experiment in plant?





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7. Which is the largest artery in body? Why it is big in size?



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8. Name the apparatus, shown in the figure?

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[Watch Video Solution](#)

9. What happens if there are no valves in the Heart?



Watch Video Solution

10. What is the size of our heart?



Watch Video Solution

11. What is the shape and structure of heart?



Watch Video Solution

12. Which protects the heart from shocks?



Watch Video Solution

13. What is cardiac cycle?



Watch Video Solution

14. What is cymphatic system?



Watch Video Solution

15. What is lymph?



Watch Video Solution

16. What is tissue fluid?



Watch Video Solution

17. What is double circulation?



Watch Video Solution

18. What is hypertension?



Watch Video Solution

19. What is serum?



Watch Video Solution

20. What is haemophilia?



Watch Video Solution

21. In root where was xylem tissue situated?



Watch Video Solution

22. Where do we find xylem in stems?



Watch Video Solution

23. What is transpiration ?



Watch Video Solution

24. What is Edema ?



Watch Video Solution

25. What is single circulation of blood?



Watch Video Solution

26. What is double circulation?



Watch Video Solution

27. What is open type of circulatory system?



Watch Video Solution

28. Name the two types of transport systems in human beings?



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29. Name the two parts of a plant through which its gaseous waste products are released into the air?



Watch Video Solution

30. What does the pulse rate show?



Watch Video Solution

31. How many layers are converging the heart?



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32. Which end of the heart is broader and which end is narrow?



Watch Video Solution

33. Why are the artery walls very strong and elastic?



Watch Video Solution

34. What is the function of Gestro vascular cavity?



Watch Video Solution

35. Which animals are encouraged by foresters to keep down the population of vales and rabbits?



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36. Which animals do great damage particularly to beech and sycamore?



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37. Sometimes barks of the tree are damaged more than a half, even though tree is alive. How is this possible?



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38. Which of the four chambers of the human heart has the thickest muscular walls?



Watch Video Solution

39. What factors contribute to rate of transpiration?



Watch Video Solution

40. How does transpiration pull help in ascent of sap?



Watch Video Solution

41. What is translocation ?



Watch Video Solution

42. What happens if valves between left auricle and left ventricle do not work property?



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43. What happens if the concentration of solution in root hair cell is less than the soil water?



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44. What is closed type of circulation system?



[Watch Video Solution](#)

45. What is Thalassemia?



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46. How does opening and closing of stomata take place?



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47. Why it is advised to take low amounts of salt in food ?





[Watch Video Solution](#)

48. Why is Rhesus factor ?



[Watch Video Solution](#)

49. What happens if the concentration of solution in root hair cell is less than the soil water?



[Watch Video Solution](#)

2 Mark Questions

1. Using the data collected by you, from internet and other sources, make a report on coagulation of blood?



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2. What questions do you ask teacher to know about the coagulation of the blood?



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3. What questions do you ask teacher to know about the coagulation of the blood?



Watch Video Solution

4. Where are the valves located in human heart? Write their names valves present in human heart.



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5. Neelima conducted an activity on her friends and got the following results.



What is the relation between heart beat and pulse rate?



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6. Why the heart beat rate is more after jogging?



Watch Video Solution

7. A person is injured while playing on the ground. Blood is flowing continuously. What might be the reasons?



Watch Video Solution

8. How did you prepare a matchstick Stethoscope in your school?



Watch Video Solution

9. By the information provided by scientist William Harvey, complete the following tables?



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10. After reading the functions of lymphatic system, what precautions you would suggest to your elders about Edema?



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11. What happens if there are no valves in veins?



Watch Video Solution

12. What will happen if pulmonary veins are tied with a thread?



Watch Video Solution

13. Suggest some precautions to avoid cardiac problems?



Watch Video Solution

14. What changes would you like to bring in your life style to avoid cardiac problems?



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15. Observe the following table and answer the questions.



What is meant by Cardiac cycle?



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16. What is weight of human heart and heart beat rate ?



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17. Read the para:



Now, answer the questions:

What happens if blood is not coagulated?



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18. Which enzyme helps in the coagulation process?



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19. Identify the mineral required for the conversion of prothrombin into thrombin



Watch Video Solution

20. What do we call yellow coloured fluid appear after the formation of the clot?



Watch Video Solution

21. Which items do you take into consideration to explain the differences of arteries and

veins?



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22. When you know the heart pumping method in circulatory system, which issue did you remember particularly? What's the reason for that?



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23. Classify different types of blood vessels in humans. On what bases do you classify blood vessels?



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24. Anil fell down while going to school, got knee injury, started bleeding. After sometime he was wondered by seeing blood clot. Why did blood clot?



Watch Video Solution

25. Describe the blood vessels that carry away blood from human heart?



Watch Video Solution

26. How is the human heart protected from shocks or injuries?



Watch Video Solution

27. When are the 'lubb' and dubb' sounds produced by heart?



Watch Video Solution

28. What is cardiac cycle ? How does it occur?



Watch Video Solution

29. What is cardiac cycle?



Watch Video Solution

30. What are the components of the transport system in highly organised plants ?



Watch Video Solution

31. State the role and function of lymph in human transport system?



Watch Video Solution

32. A certain tissue in a green plant somehow gets blocked and the leaves wilted. What is the tissue that gets blocked?



Watch Video Solution

33. What happens if valves between left auricle and left ventricle do not work property?



Watch Video Solution

34. Write the differences between blood and lymph?



Watch Video Solution

35. How does transpiration help plants ?



Watch Video Solution

36. Transpiration is necessary evil. Explain?



Watch Video Solution

37. How will you appreciate function of human heart since 21st day of embryonic stage to till death?



Watch Video Solution

38. In some people blood does not coagulate. Give the reasons for it?



Watch Video Solution

39. What is Haemophilla? What are the causes for it?



Watch Video Solution

4 Mark Questions

1. Describe the internal ststructure of heart with a neat labelled diagram.



Watch Video Solution

2. What is called pumping station in human body ? Explain its structure with suitable diagram.



Watch Video Solution

3. What is coagulation ?



Watch Video Solution

4. Collect information from internet and other sources about blood clotting and prepare a

note on it.



Watch Video Solution

5. Read the tabel and answer the following questions.



In which phylum, blood vessels are first formed ?



View Text Solution

6. In which phylum, organisms have haemoglobin in their blood ?



Watch Video Solution

7. In which phylum, digestive system helps in transportation ?



Watch Video Solution

8. Why do Arthropods have open circulatory system ?



Watch Video Solution

9. Total number of valves in human heart are



Watch Video Solution

10. Ramu got injured while playing Kabaddi. His blood clotted within 6 minutes. Write the

procedure involved in it.



Watch Video Solution

11. Read the para :



Now, fill the table with the above information.



View Text Solution

12. Write a short note on Human Lymphatic System and its functions.



Watch Video Solution

13. Observe the given diagram. Which type of cardiac cycle does it indicate ? Explain the process that happens here.



Watch Video Solution

14. In human body "A" is a pumping organ. From lungs blood vessel "B" with oxygenated blood enters upper "C" Part of left chamber of the organ. When " C" chamber contracts blood flows into "D" lower left Chamber. Contracts blood is pumped to all parts of the body except lungs through blood vessel E. Deoxygenated blood from body parts is collected by blood vessel "F" and opens upper "G" right chamber. This chamber contracts blood flows "H" lower chamber. Lastly "H" contracts De-oxygenated blood sent to lungs

by blood vessel "I".

What organ does 'A' represents ?



Watch Video Solution

15. What blood vessels are (i) B (ii) E (iii) F and (iv) I ? Write their names.



Watch Video Solution

16. What chambers are (i) C (ii) D ?



Watch Video Solution

17. What blood vessels are (i) B (ii) E (iii) F and (iv) I ? Write their names.



Watch Video Solution

18. Write about the blood vessels that bring blood to human heart.



Watch Video Solution

19. What is blood pressure ? How is it measured ?



Watch Video Solution

20. What is the need of special tissues or organs for transport of substances in plants and animals ?



Watch Video Solution

21. Explain the process of transport of mineral salts.



Watch Video Solution

22. Write about the changes in the evolution of transport system in animals.



Watch Video Solution

23. How are water and minerals transported in plants ?



Watch Video Solution

24. How is manufactured food in leaves transported to other parts of the plant ?



Watch Video Solution

25. Explain the process of absorption of water by the root hair and movement of water in xylem.



Watch Video Solution

26. If you get chance to meet a cardiologist / cardiovascular surgeon, what questions will you ask about the problems related to heart ?



Watch Video Solution

27. Write briefly about the work done by William Harvey on circulation of blood.



Watch Video Solution

28. What was the classical experiment conducted by William Harvey to demonstrate movement of blood in veins ?



Watch Video Solution

29. What was the classical experiment conducted by William Harvey to demonstrate movement of blood in veins ?



Watch Video Solution

30. Write an experiment to illustrate the conduction of sugars by phloem.



Watch Video Solution

31. Observe folloeing table and answer questions given below.



In which animal is the heart beat rate very slow ?



View Text Solution

32. What is weight of human heart and heart beat rate ?



Watch Video Solution

33. Which animal has the highest heart beat rate ?



Watch Video Solution

34. Is there any relation between weight of the body and heart beat rate ?



Watch Video Solution

35. Draw T.S. of arteries and veins. Write flow of blood in between them?



Watch Video Solution

36. Draw T.S. of arteries and veins. Write flow of blood in between them?



Watch Video Solution

37. The diagrams given below show cross-section of two kinds of blood vessels?



Identify the blood vessels A and B. In each case, give reasons to support your answer?



View Text Solution

38. Name the parts numbered 1 and 2?



Watch Video Solution

39. In following block diagram, write the missing parts. Name the parts 1,2,3 and 4?



Watch Video Solution

Exercise

1. What is transport system ? How does this help to the organism?



Watch Video Solution

2. What is the relationship between blood and plasma?



Watch Video Solution

3. Which type of blood vessels carry blood away from the heart?



Watch Video Solution

4. What are the three main types of blood vessels in the body?



Watch Video Solution

5. Which is the largest artery in body? Why it is big in size?



Watch Video Solution

6. Which blood vessel carries blood for oxidation?



Watch Video Solution

7. Name the structures which are present in veins and lymph ducts and absent in arteries.



Watch Video Solution

8. What is the use of platelets?



Watch Video Solution

9. Write differences between

- a) Systole – Diastole b) Veins – Arteries c) Xylem – Phloem
a) Systole – Diastole :



Watch Video Solution

10. Write differences between

Veins - Arteries ?



Watch Video Solution

11. Write differences between

a) Systole – Diastole b) Veins – Arteries c) Xylem – Phloem

a) Systole – Diastole :



Watch Video Solution

12. Explain the way how plants get water by osmosis through root hair?



Watch Video Solution

13. What is root pressure ? How is it useful to the plant?



Watch Video Solution

14. Phloem is a food source for some animals. How can you justify this statement?



Watch Video Solution

15. What is Haemophilla? What are the causes for it?



Watch Video Solution

16. If the valves in veins of the legs fail to stop the flow of blood, what could be the consequences of this failure?



Watch Video Solution

17. What happens if reabsorption of water does not take place ?



Watch Video Solution

18. John prepared stethoscope with paper cup and plastic tube. Write down the procedure of preparation?



Watch Video Solution

19. How scientists prove that the food is transported through the phloem?



Watch Video Solution

20. Draw a schematic diagram to explain single and double circulation. Write differences between them.



Watch Video Solution

21. Prepare a block diagram showing from water absorption by roots to transpiration by leaf?



Watch Video Solution

22. What can circulatory system In man be compared with ?



Watch Video Solution

23. After reading this lesson, what precautions would you suggest to your elders about edema?



Watch Video Solution

24. The term cardiac refers to which organ in the body

A. Heart

B. Vein

C. Lymph

D. Capillary

Answer:



Watch Video Solution

25. On which side of the human heart is low in oxygen?

A. Right atrium

B. Right ventricle

C. Left atrium

D. A and B

Answer:



Watch Video Solution

26. Which structures of the heart control the flow of the blood?

A. Arteries

B. Veins

C. Valves

D. Capillaries

Answer:



Watch Video Solution

27. Which of the following statement is wrong

A. Serum is the liquid portion formed after
blood clotting.

B. Lymph is the link between blood and tissues.

C. The xylem and phloem transport water and food in plants.

D. In insects closed type of circulatory system is seen.

Answer:



Watch Video Solution

28. An aphid pierces its proboscis into the.....
to get plant juices?

A. Xylem

B. Phloem

C. Cambium

D. Vascular bundle

Answer:



Watch Video Solution

29. How can you find out your pulse rate ?



Watch Video Solution

30. What activities will you do to find relation between heart beat and pulse rate?



Watch Video Solution

31. What activities will you do to find relation between heart beat and pulse rate?



Watch Video Solution

32. What is the relationship between the heart beat and the pulse?



Watch Video Solution

33. How do you observe the mammalian heart?



Watch Video Solution

34. How do you observe the mammalian heart?



Watch Video Solution

35. What is shape of human heart?



Watch Video Solution

36. How many layers are converging the heart?



Watch Video Solution

37. What is the number of blood vessels attached to the heart?



Watch Video Solution

38. Which end of the heart is broader and which end is narrow?



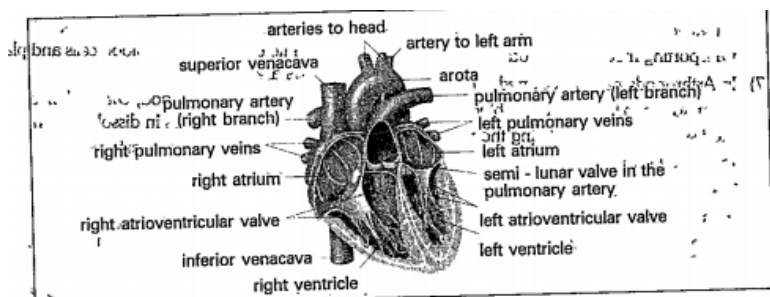
Watch Video Solution

39. Is the thickness of the wall of the heart uniform throughout?



Watch Video Solution

40. Observe the diagram and answer the following questions.



How many chambers are there in the heart?



Watch Video Solution

41. Are all the chambers in the same size?



Watch Video Solution

42. What are the other differences could you observe between the chambers?



Watch Video Solution

43. Do you find any specific observation in between two chambers?



Watch Video Solution

44. Are all the chambers connected to each other?



Watch Video Solution

45. How are they connected to each other?

How are they separated?



Watch Video Solution

46. What is the number of blood vessels attached to the heart?



Watch Video Solution

47. Are all the blood vessels right ? How many of them are rigid?



Watch Video Solution

48. Do you think that the stiffness/rigidity of blood vessel is something to do with circulation?



Watch Video Solution

49. How is water absorbed into the roots?

Explain with an experiment?



Watch Video Solution

50. Explain the process of absorption of water by the root hair and movement of water in xylem.



Watch Video Solution

51. Describe an experiment to demonstrate root pressure in plants?



Watch Video Solution

52. Why do subcutaneous blood vessels bulge on the side away from the heart when the hand is tied?



Watch Video Solution

53. What is the difference between pulmonary artery and pulmonary vein?



Watch Video Solution

54. How many times did your pointer touch the heart?



Watch Video Solution

55. How many times did your pointer touch the heart?



Watch Video Solution

56. How many times did the pointer touch the respiratory organs?



Watch Video Solution

57. What is the mechanism behind this?



Watch Video Solution

58. Are root directly in contact with water?



Watch Video Solution

59. How is water absorbed ?



Watch Video Solution

60. Is there any increase in the water level?



Watch Video Solution

61. What is the role of xylem?



Watch Video Solution

62. Why do our legs swell?



Watch Video Solution

63. Is there anything like that in plants which corresponds to circulatory system?



Watch Video Solution

64. Artery walls are very strong and elastic.
Why?



Watch Video Solution

65. Why do compare arteries like tree which divides into smaller and smaller branches?



Watch Video Solution

66. The lumen size is bigger in vein when compare with artery. Why?



Watch Video Solution

67. Two person's blood pressure is like this:

Ramaiah	140 / 80
Rangaiah	110 / 90

Whose Blood pressure is high? What does it indicate?



[Watch Video Solution](#)

68. How does lymph differ from blood?



[Watch Video Solution](#)

69. Which is the largest artery in body? Why it is big in size?



Watch Video Solution

70. What happens if blood platelets are absent in blood?



Watch Video Solution

71. Name the apparatus, shown in the figure?

(##BRS_QB_BIO_X_C03_E13_008_Q01.png"

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Watch Video Solution

72. List out the materials you have used to observe the goat heart in your laboratory?



Watch Video Solution

73. What method do you suggest to control high blood pressure?



Watch Video Solution

74. Where are the valves located in human heart? Write their names valves present in human heart.



Watch Video Solution

75. A person is injured while playing on the ground. Blood is flowing continuously. What might be the reasons?



Watch Video Solution

76. A person is injured while playing on the ground. Blood is flowing continuously. What might be the reasons?



Watch Video Solution

77. Where are the valves located in human heart? Write their names valves present in human heart.



Watch Video Solution

78. What happens if there are no valves in veins?



Watch Video Solution

79. What questions do you ask teacher to know about the coagulation of the blood?



Watch Video Solution

80. What questions do you pose to your teacher to understand blood clotting' ?



Watch Video Solution

81. Describe the internal structure of heart with a neat labelled diagram.



Watch Video Solution

82. What is called pumping station in human body ? Explain its structure with suitable diagram.



Watch Video Solution

83. Where are the valves located in human heart? Write their names valves present in human heart.



Watch Video Solution

84. Which blood vessels carry blood from heart to body parts?



Watch Video Solution

85. Write a short note on Human Lymphatic System and its functions.



Watch Video Solution

86. What is lymph?



Watch Video Solution

87. Explain the process of coagulation of blood.



Watch Video Solution

88. What is the size of our heart?



Watch Video Solution

89. What is the shape and structure of heart?



Watch Video Solution

90. Which protects the heart from shocks?



Watch Video Solution

91. What is cardiac cycle?



Watch Video Solution

92. Where can we observe the protoplasmic movements called Brownian movements?



Watch Video Solution

93. In which animals, the digestive system is highly branched and supplies digested food to all cells directly?



Watch Video Solution

94. Which has taken up the function of collection and distribution of materials in Nematyhelmenthes?



Watch Video Solution

95. What is cymphatic system?



Watch Video Solution

96. What is lymph?



Watch Video Solution

97. What is tissue fluid?



Watch Video Solution

98. What is double circulation?



Watch Video Solution

99. What is hypertension?



Watch Video Solution

100. What is serum?



Watch Video Solution

101. Which vitamin is required for blood clot ?



Watch Video Solution

102. What is haemophilia?



Watch Video Solution

103. In root where was xylem tissue situated?



Watch Video Solution

104. Where do we find xylem in stems?



Watch Video Solution

105. What plays an important role in the absorption of water?



Watch Video Solution

106. What is transpiration ?



Watch Video Solution

107. How is manufactured food in leaves transported to other parts of the plant ?



Watch Video Solution

108. How is manufactured food in leaves transported to other parts of the plant ?



Watch Video Solution

109. Which organ acts as a pump in the circulatory system ?



Watch Video Solution

110. Name the two types of transport systems in human beings?



Watch Video Solution

111. Name the two types of transport systems in human beings?



Watch Video Solution

112. Name the two parts of a plant through which its gaseous waste products are released into the air?



Watch Video Solution

113. What does the pulse rate show?



Watch Video Solution

114. How many layers are converging the heart?



Watch Video Solution

115. Which end of the heart is broader and which end is narrow?



Watch Video Solution

116. Why are the artery walls very strong and elastic?



Watch Video Solution

117. What is the function of Gastrovascular cavity?



Watch Video Solution

118. Which animals are encouraged by foresters to keep down the population of vales and rabbits?



Watch Video Solution

119. Which animals do great damage particularly to beech and sycamore?



Watch Video Solution

120. When do you think that our pulse rate goes up?



Watch Video Solution

121. Sometimes barks of the tree are damaged more than a half, even though tree is alive. How is this possible?



Watch Video Solution

122. Which of the four chambers of the human heart has the thickest muscular walls?



Watch Video Solution

123. Sieve tube is a part of –



Watch Video Solution

124. What factors contribute to rate of transpiration?



Watch Video Solution

125. How does transpiration pull help in ascent of sap?



Watch Video Solution

126. Mass flow deals with translocation of :



Watch Video Solution

127. Sweating is mainly meant for



Watch Video Solution

128. Which items do you take into consideration to explain the differences of arteries and veins?



Watch Video Solution

129. When you know the heart pumping method in circulatory system, which issue did you remember particularly? What's the reason for that?



Watch Video Solution

130. Classify different types of blood vessels in humans. On what bases do you classify blood vessels?



Watch Video Solution

131. Anil fell down while going to school, got knee injury, started bleeding. After sometime he was wondered by seeing blood clot. Why did blood clot?



Watch Video Solution

132. Describe the blood vessels that carry away blood from human heart?



Watch Video Solution

133. How is the human heart protected from shocks or injuries?



Watch Video Solution

134. When are the 'lubb' and dubb' sounds produced by heart?



Watch Video Solution

135. What is cardiac cycle ? How does it occur?



Watch Video Solution

136. Which blood vessels carry blood from heart to body parts?



Watch Video Solution

137. What is cardiac cycle ? How does it occur?



Watch Video Solution

138. The correct order/sequence of different phases of human cardiac cycle.



Watch Video Solution

139. What is double circulation?



Watch Video Solution

140. What are the components of the transport system in highly organised plants?



Watch Video Solution

141. State the role and function of lymph in human transport system?



Watch Video Solution

142. Write the differences between blood and lymph?



Watch Video Solution

143. A certain tissue in a green plant somehow gets blocked and the leaves wilted. What is the tissue that gets blocked?



Watch Video Solution

144. How does transpiration help plants ?



Watch Video Solution

145. Transpiration is necessary evil. Explain?





[Watch Video Solution](#)

146. Observe the given diagram. Which type of cardiac cycle does it indicate ? Explain the process that happens here.



[Watch Video Solution](#)

147. Write about the blood vessels that bring blood to human heart.



[Watch Video Solution](#)

148. Why heart is very vital organ ?



Watch Video Solution

149. After undergoing strenuous exercise we feel pain in muscles, does adequate oxygen reach the muscles ?



Watch Video Solution

150. Why do we get heart attack?



Watch Video Solution

151. I supply blood to the heart muscles. Any blockage in the leads to heart attack. Who am I?



Watch Video Solution

152. Why do we get heart attack?



Watch Video Solution

153. What is stent?



Watch Video Solution

154. When do a person need stent ?



Watch Video Solution

155. Which type of graft is used in plastic surgery?



Watch Video Solution

156. What is pace maker?



Watch Video Solution

157. What food habits are you going to follow after reading this chapter (Nutrition - Food supplying system) ? Why ?



Watch Video Solution

158. Why the heart beat rate is more after jogging?



Watch Video Solution

159. What is blood pressure ? How is it measured ?



Watch Video Solution

160. What is the need of special tissues or organs for transport of substances in plants and animals ?



Watch Video Solution

161. Explain the process of transport of mineral salts.



Watch Video Solution

162. Write about the changes in the evolution of transport system in animals.



Watch Video Solution

163. How are water and minerals transported in plants? How is food transported in plants?



Watch Video Solution

164. How is manufactured food in leaves transported to other parts of the plant ?



Watch Video Solution

165. What happens if valves between left auricle and left ventricle do not work property?



Watch Video Solution

166. What happens if the concentration of solution in root hair cell is less than the soil water?



Watch Video Solution

167. What will happen if cell sap of root hair cells contain high concentration of ions?



Watch Video Solution

168. Write briefly about the work done by William Harvey on circulation of blood.



Watch Video Solution

169. What was the classical experiment conducted by William Harvey to demonstrate movement of blood in veins ?



Watch Video Solution

170. What was the classical experiment conducted by William Harvey to demonstrate movement of blood in veins ?



Watch Video Solution

171. Write an experiment to illustrate the conduction of sugars by phloem.



Watch Video Solution

172. Draw T.S. of arteries and veins. Write flow of blood in between them?



Watch Video Solution

173. Write the differences between T.S. of artery, T.S. of vein and T.S. of blood capillary.



Watch Video Solution

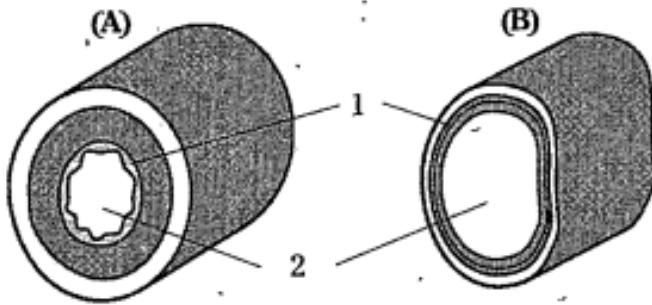
174. Draw neat labelled diagram of L.S of human heart. What is the function of pulmonary artery ?



Watch Video Solution

175. The diagrams given below shows cross-section of two kinds of blood vessels : Identify the blood vessels A and B. In each case, give

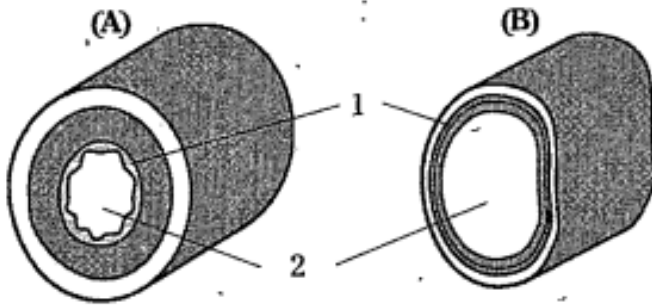
reasons to support your answer.



Watch Video Solution

176. The diagrams given below shows cross-section of two kinds of blood vessels : Name

the parts numbered 1 and 2.



Watch Video Solution

177. Draw a block diagram to explain single and double circulation. Write differences between them?



Watch Video Solution

178. How will you appreciate function of human heart since 21st day of embryonic stage to till death?



Watch Video Solution

179. What changes would you like to bring in your life style to avoid cardiac problems?



Watch Video Solution

180. Name the outer protective membrane of heart?

A. Hypercardium

B. Pericardium

C. Apicardium

D. Uppercardium

Answer:



Watch Video Solution

181. Blood pressure in the pulmonary artery is

A. i,iii

B. ii,iv

C. i,ii

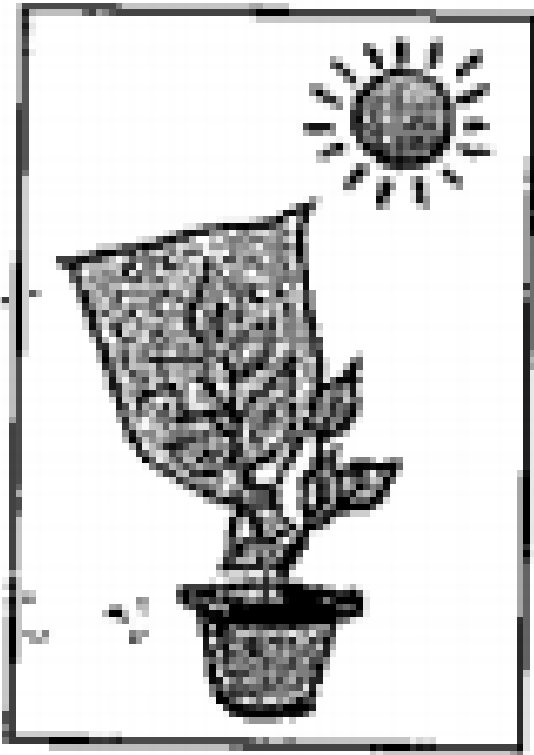
D. iii,iv

Answer:



Watch Video Solution

182. This experiment is conducted to prove



- A. Root pressure
- B. Photosynthesis
- C. Respiration

D. Transpiration

Answer:



Watch Video Solution

183. Which of the following statements are true?

- 1) Arteries have thick walls.
- 2) Arteries carry blood from heart to body parts.

3) Arteries have low blood pressure.

4) Pulmonary artery carries Oxygenated blood.

A. (i) and (iii)

B. (i) and (iv)

C. (ii) and (iv)

D. i and ii

Answer:



Watch Video Solution

184. Where can we observe single circuit blood circulation?

A. Frog

B. Snail

C. Hen

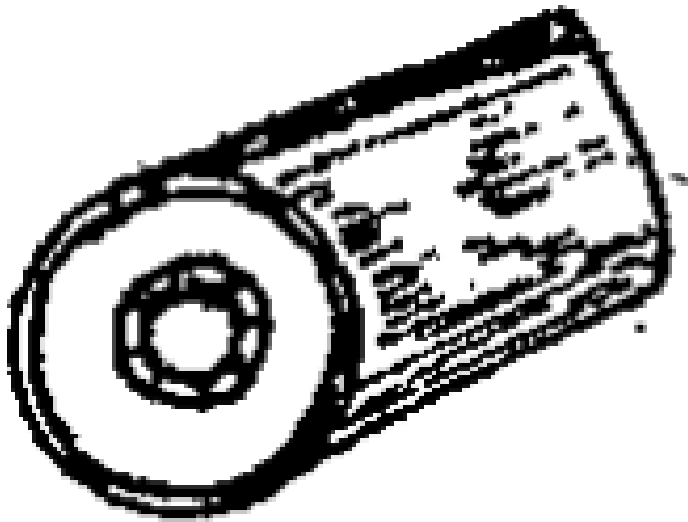
D. Fish

Answer:



Watch Video Solution

185. Identify the diagram.



A. T.S. of vein.

B. T.S of venule

C. T.S of artery

D. T.S of blood capillary

Answer:



Watch Video Solution

186. Name the part that is associated with transport of water in plants?

A. Phloem

B. Epidermis

C. Xylem

D. Meristematic tissue

Answer:



Watch Video Solution

187. Choose the correct statement.

- A. Lumen of the artery is high.
- B. Pressure in the artery is high.
- C. Thickness of the veins is high.
- D. Valves are present in the arterles.

Answer:



[Watch Video Solution](#)

188. Vitamin E is also called

A. Phylloquinone

B. Calciferol

C. Ascorbic acid

D. Tocoferol

Answer:



[Watch Video Solution](#)

189. Observe and Identify the system present in the below figure.



A. Excretory system

B. Nervous system

C. Lymphatic system

D. Muscular system

Answer:



Watch Video Solution

190. The pulse rate of new born babies is

A. 100 – 150

B. 90 – 140

C. 80 – 120.

D. 70-190

Answer:



Watch Video Solution

191. Now observe the pulse rate of students of your class. Take your shirt button and insert a matchstick and place it on your wrist.

A. 70 – 130

B. 60 -100

C. 80 – 120.

D. 90 – 120

Answer:



Watch Video Solution

192. Which end of the heart is broader and which end is narrow?

A. Rectangular

B. Square

C. Pear

D. Cone

Answer:



Watch Video Solution

193. Name the blood vessels that supply blood in the walls of heart?

A. Pulmonary vessels

B. Coronary vessels

C. pulmonary artery

D. Renal vessels

Answer:



Watch Video Solution

194. What is the number of blood vessels attached to the heart?

A. 4

B. 6

C. 7

D. 5

Answer:



Watch Video Solution

195. Which is the largest artery in body? Why it is big in size?

A. Aorta

B. pulmonary artery

C. coronary artery

D. Renal artery

Answer:



Watch Video Solution

196. Name the blood vessel that supplies oxygenated blood to the heart from lungs?

A. Pulmonary artery

B. pulmonary vein

C. coronary vein

D. Superior venacava

Answer:



Watch Video Solution

197. Where do superior and inferior vena cava open into?

A. Right atrium

B. left atrium

C. right ventricle

D. Left ventricle

Answer:



Watch Video Solution

198. Where do pulmonary vein which carries oxygenated blood open into?

A. right atrium

B. left atrium

C. right ventricle

D. left ventricle

Answer:



Watch Video Solution

199. Aorta which supplies oxygenated blood to the body parts arise from?

A. right atrium

B. left atrium

C. right ventricle

D. left ventricle

Answer:



Watch Video Solution

200. Pulmonary artery which supplies deoxygenated blood to lungs arise from?

A. right atrium

B. left atrium

C. right ventricle

D. left ventricle

Answer:



Watch Video Solution

201. Where are the valves located in human heart? Write their names valves present in human heart.

A. Left atrium → Left ventricle → Lungs

→ Right atrium → Right ventricle

B. Right atrium → Right ventricle

C. Left atrium → Left ventricle

D. Right atrium → Right ventricle →

Lungs → Left atrium → Left ventricle

Answer:



Watch Video Solution

202. Mitral valve is present in between

- A. Right atrium and ventricle
- B. Two atria
- C. Two ventricles
- D. Left atrium and ventricle

Answer:



Watch Video Solution

203. Where are new blood cells are formed?

- A. Red blood cells
- B. White blood cells
- C. Blood platelets
- D. All the above

Answer:



Watch Video Solution

204. When the valves between the atria and ventricle are closed forcibly we listen the sound of heart as

A. Lub

B. Dub

C. Lub – dub

D. Tub

Answer:



Watch Video Solution

205. The valves which are present in the blood vessels are closed to prevent backward flow of blood into the ventricles we hear the sound of heart as

A. Lub

B. Dub

C. Lub – dub

D. Tub

Answer:



Watch Video Solution

206. What is cardiac cycle?

A. 0.8sec

B. 0.9sec

C. 0.10 sec

D. 0.11 sec

Answer:



Watch Video Solution

207. What is the time needed for the ventricular contraction?

A. 0.37 – 0.47 sec

B. 0.27 – 0.35 sec

C. 0.11 -0.14 sec

D. 0.11 -0,35 sec

Answer:



Watch Video Solution

208. Abhi's heart beat is 72 per minute. Then what is his pulse rate?

- A. 7 times
- B. 46 times
- C. 76 times
- D. 72 times

Answer:



Watch Video Solution

209. Where can we observe the protoplasmic movements called Brownian movements?

A. Amoeba

B. Paramecium

C. Meninges

D. Cockroach

Answer:



Watch Video Solution

210. The body is covered by fine hair, eyelids separate and eye lashes are formed by the end of

A. Pleural meinbrane

B. Pericardium

C. Hydra and jelly fish

D. Conjunctiva

Answer:



Watch Video Solution

211. What is the function of Gastrovascular cavity?

A. Hydra

B. Jelly fish

C. Cnidarians

D. Earthworm

Answer:



Watch Video Solution

212. In which animals, the digestive system is highly branched and supplies digested food to all cells directly?

- A. Platyhelminthes
- B. Nematyhelmenthes
- C. Annelids
- D. Annelids

Answer:



Watch Video Solution

213. Pseudocoelom has taken up the function of collection and distribution of food materials. In which organisms you can observe this?

- A. Platyhelminthes
- B. Nematelminthes
- C. Annelids
- D. Arthropods

Answer:



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214. What are the first Eucoelomate animals?

- A. Platyhelminthes
- B. Nematyhelmenthes
- C. Annelids
- D. Arthropods

Answer:



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215. the pulsatile organ heart to pump the blood is developed in

- A. Platyhelminthes
- B. Nematyhelmenthes
- C. Lower chordates
- D. Arthropods

Answer:



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216. Open type of circulatory system is seen in all of the following except

- A. Arthropods
- B. Many molluscs
- C. Cephalo chordates
- D. All the above

Answer:



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217. Which of these has a closed type of circulatory system?

- A. Annelids
- B. Echinoderms
- C. Transpiration
- D. All the above

Answer:



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218. The figure along side represent an experiment performed to demonstrate a certain phenomenon in plant. What is the phenomenon ?



A. Transpiration

B. Evaporation

C. Neck

D. Guttation

Answer:



Watch Video Solution

219. I am the middle man of the bldy. I help in assimilation of digested food. I am responsible for causing edema. Who am I?

A. Legs

B. Hands

C. Excretory system

D. Head

Answer:



Watch Video Solution

220. The separate system to transport the tissue fluid into the main blood stream is

A. Circulatory system

B. lymphatic system

C. Smooth muscles

D. Digestive system

Answer:



Watch Video Solution

221. Name the muscles that help in that pushing of lymph flowing in the lymphatic vessels towards the heart?

A. Skeletal muscles

B. cardiac muscles

C. Veins

D. All the above

Answer:



Watch Video Solution

222. Bicuspid valve allows blood to flow from

A. Arteries

B. lymphatic vessels

C. Barometer

D. Both lymphatic vessels and veins

Answer:



Watch Video Solution

223. What is the name of the device used to measure blood pressure?

A. Stethoscope

B. Sphygmomanometer

C. 130 / 70

D. Nanometer

Answer:



Watch Video Solution

224. The normal blood pressure in man is..... It is measured with an instrument called.....

A. 120 / 80

B. 80 / 120

C. Fibrin, Clot,

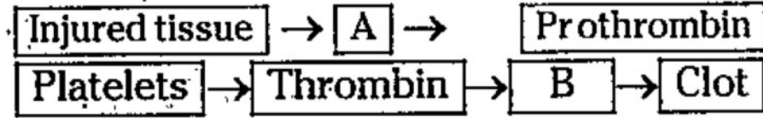
D. 90 / 120

Answer:



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225. Write missing words (A) & (B) from following flow chart.



A. Thrombokinese, Fibrin

B. Prothrombin, Fibrin

C. Thrombokinese

D. Thrombokinese, Prothrombin

Answer:



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226. What is the use of platelets?

A. Haemoglobin

B. Heparin

C. Vitamin C.

D. Cytokinase

Answer:



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227. Name the vitamin responsible for the coagulation of blood.

A. Vitamin K

B. Vitamin E

C. Haemophilia

D. Vitamin D

Answer:



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228. What is the genetic defect in which the blood may not coagulate?

A. Anaemia

B. Epiphyllous

C. Vascular bundles

D. Xerophthalmia

Answer:



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229. I transport water and minerals from roots to the apical parts of the plant. Who am I?

A. Xylem

B. Phloem

C. Cotyledon

D. Vascular cambium

Answer:



Watch Video Solution

230. What is the part that emerges out of the germinating seed?

A. Radicle

B. Plumule

C. Capillary

D. All the above

Answer:



Watch Video Solution

231. What does the pulse rate show?

A. Vein

B. Artery

C. Medulla

D. Lymph vessels

Answer:



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232. Name the three basic tissue systems in the flowering plants. Give the tissue names under each system.

A. Xylem

B. Phloem

C. Voles and Rabbits

D. Cortex

Answer:



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233. Name the mammals that scratch the bark of trees to get food stored in the phloem?

A. Voles

B. Rabbits

C. Pancreas

D. Hawks

Answer:



Watch Video Solution

234. What is the size of our heart?

A. Heart

B. Kidney

C. Cerebrospinal

D. Liver

Answer:



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235. How many layers are converging the heart?

A. Pleura

B. Pericardial

C. Thicker

D. Renal

Answer:



Watch Video Solution

236. Which of the following statements are true?

1) Arteries have thick walls.

2) Arteries carry blood from heart to body parts.

3) Arteries have low blood pressure.

4) Pulmonary artery carries Oxygenated blood.

A. Thinner

B. Smoother

C. Caronary artery

D. Elastic

Answer:



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237. In human body *A* is a pumping organ from lungs blood vessel *B* with oxygenated blood enters upper *C* part of left chamber of the organ. When "C" chamber contracts blood flows into "D" lower left chamber. "D" chamber contracts blood is pumped to all parts of the body except lungs through blood vessel *E*. Deoxygenated blood from body parts is collected by blood vessel "F " and opens upper "G" right chamber. This chamber contracts blood flows into "H" lower chamber Lastly "H" contracts Deoxygenated blood sent to lungs

by blood vessel "I"

b) (i) B (ii) E (iii) F and (iv) I are what blood vessels ? Write their names.

A. Pulmonary vein

B. Aorta

C. Heart

D. Pulmonary artery

Answer:



Watch Video Solution

238. If the valves in veins of the legs fail to stop the flow of blood, what could be the consequences of this failure?

A. Body parts

B. Tissues

C. Andreas Vessalius

D. Lungs

Answer:



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239. Identify the scientist?

"He found that in one hour, the heart pumped out a quantity of blood that was three times the weight of a man."

- A. Giralamo Fabrici
- B. William Harvey
- C. Blood capillaries
- D. Marcello Malphigi

Answer:



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240. What are the three main types of blood vessels in the body?

A. Veinlets

B. Arterioles

C. 20th day

D. Lymph nodes

Answer:



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241. When does the heart beat start in the human embryo?

- A. 21st day
- B. 22nd day
- C. Hypertension
- D. 23rd day

Answer:



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242. What is cardiac cycle?

A. Systole

B. Diastole

C. 0.12 -0.15 seconds

D. Heart beat

Answer:



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243. What is the time needed for atrial contraction?

A. 0.10 - 0.13 seconds

B. 0.11 -0.14 seconds

C. Inhalations

D. 0.9 -0.12 seconds

Answer:



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244. Can we say, the pulse rate is always equal to the heart beat?

- A. Heart beats
- B. Exhalations
- C. Hot, humid, air
- D. Breaths

Answer:



Watch Video Solution

245. The type of transpiration observed in leaves

- A. Cold, humid, air
- B. Hot, humid, dry Cilia
- C. Antennae.
- D. Hot, dry, air

Answer:



Watch Video Solution

246. The parazones like sponges create their own currents by beating off

A. Flagella

B. Cilia

C. Cnidarians

D. Proboscis

Answer:



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247. Which has taken up the function of digestion and transportation of nutrients to each and every cell of the body in cnidarians?

A. Parazoan

B. Platyhelmenthes

C. Closing Aorta and pulmonary valves

D. Nematyhelmenthes

Answer:



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248. What is the reason for the heart beat?

- A. Closing of tricuspid and bicuspid valves
- B. Closing Aorta and pulmonary valves
- C. Open type of circulatory system
- D. Blood flows rapidly through valves

Answer:



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249. Name the transportation system that supplies nutrients to the tissues directly?

- A. Closed type of circulatory system
- B. Open type of circulatory system
- C. Blood vessels
- D. None

Answer:



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250. What is closed type of circulation system?

A. Empty spaces

B. Sinuses

C. 60 Hours

D. All the above

Answer:



Watch Video Solution

251. What is the time taken for the supply of 1ml of blood from heart to a foot and back in human beings?

A. 60 Minutes

B. 60 Hours

C. 60 Seconds

D. 60 Years

Answer:



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252. What is lymph?

A. Water

B. Gas

C. Oil

D. Fluid

Answer:



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253. What is tissue fluid?

A. The solid portion of the blood with nutrients

B. The liquid portion of the blood with nutrients that flows out of capillaries

C. The semi-liquid portion of the blood without nutrients that flows out of capillaries

D. The liquid portion of the blood without nutrients that flows out of capillaries

Answer:



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254. The separate system to transport the tissue fluid into the main blood stream is

A. Blood system

B. Lymphatic system

C. Renal system

D. Capillary system

Answer:



Watch Video Solution

255. Blood is isotonic with

A. Solid particles only

B. Liquid particles only

C. Both solid and liquid particles

D. Semi-solid particles

Answer:



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256. Lymph is the substance that contains

A. Blood with solid particles

B. Blood without solid particles

C. Blood with liquid particles

D. Blood without liquid particles In single
circuit circulation blood

Answer:



Watch Video Solution

257. What is single circulation of blood?

A. Only once

B. Twice

C. Thrice

D. None

Answer:



Watch Video Solution

258. What is blood pressure ? How is it measured ?

A. Artery

B. Vein

C. Capillary

D. Lymph vessel

Answer:



Watch Video Solution

259. Diastolic pressure is seen when these refill with blood

A. Ventricles

B. Atria

C. Veins

D. Capillaries

Answer:



Watch Video Solution

260. Diastolic pressure is seen when these refill with blood

A. Atria

B. Blood vessels

C. Ventricles

D. Veins

Answer:



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261. Read the following sentences. (1) Blood vessels carry blood from body parts are veins (2) Arteries are not strong as veins (3) Pulmonary artery carries blood from heart to lungs (4) Superior venacava collects deoxygenated blood from upperpart of the

body like head and neck. What are correct sentences ?

A. 1,2

B. 2,3

C. 3,4

D. 1,3,4

Answer:



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262. Name the straw coloured fluid portion after formation of blood clot?

A. Plasma

B. Serum

C. Lymph

D. Tissue fluid

Answer:



Watch Video Solution

263. What plays an important role in the absorption of water?

- A. Osmosis
- B. Diffusion
- C. Transpiration
- D. Root pressure

Answer:



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264. 'The evaporation of water through stomata of leaves takes place". What do you call this phenomenon?

A. Translocation

B. Guttation

C. Transpiration

D. All the above

Answer:



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265. The correct order/sequence of different phases of human cardiac cycle.

A. 1, 2, 3, 4

B. 2,4, 1,3

C. 3, 1, 2, 4

D. 4, 3, 2, 1

Answer:



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266. Read below sentence. Identify in which part it is wrong. Explain with suitable word.

Unicellular like amoeba transport of substances takes place by means of Brownian movements.

A. No wrong in above sentence

B. Paramecium

C. Cytoplasm

D. Respiration

Answer:





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267. In which of the vascular bundles xylem is surrounded by phloem

- A. Centre
- B. Periphery
- C. Inner layers
- D. Towards right side

Answer:



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268. In human body "A" is a pumping organ. From lungs blood vessel "B" with oxygenated blood enters upper "C" Part of left chamber of the organ. When " C" chamber contracts blood flows into "D" lower left Chamber. Contracts blood is pumped to all parts of the body except lungs through blood vessel E. Deoxygenated blood from body parts is collected by blood vessel "F" and opens upper "G" right chamber. This chamber contracts blood flows "H" lower chamber. Lastly "H"

contracts De-oxygenated blood sent to lungs by blood vessel "I".

What organ does 'A' represents ?

A. Superior venacava

B. Inferior venacava

C. Pulmonary vein

D. Coronary vein

Answer:



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269. Right atrium of heart of mammal receives blood from

- A. Anterior parts of the body
- B. Posterior parts of the body.
- C. Middle parts of the body
- D. All the body parts

Answer:



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270. Type of blood circulation in amphibians is

- A. William Harvey
- B. Marcello Malphigi
- C. Giralamo Fabrici
- D. All the above

Answer:



Watch Video Solution

271. Name the outer protective membrane of heart?

A. Hypercardium

B. Pericardium

C. Apicardium

D. Uppercardium

Answer:



Watch Video Solution

272. Name the outer protective membrane of heart?

A. 130 metres

B. 120 metres

C. 140 metres

D. 200 metres

Answer:



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273. What is responsible for the continuous column of moving water in Xylem vessels?

- A. Osmosis
- B. Diffusion
- C. Turgor pressure
- D. Root pressure

Answer:



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274. Complete the blanks.

..... (1) alkaloid is extracted from coffee plant . It acts as (2).

A. Sugars

B. Amino acids

C. Sugars, Amino acids

D. Sugars, Proteins

Answer:



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275. Number of heart beats/minute in Elephant is

A. 46

B. 76

C. 7

D. 1200

Answer:



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276. Annelids are _____ animals.

- A. Encoelomate
- B. Coelomate
- C. Pseudocoelomate
- D. None

Answer:



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277. Cardiac output means, the amount of blood pumped out in

- A. Two times the weight of a man
- B. Three times the weight of a man
- C. Four times the weight of a man
- D. Equal to the weight of a man

Answer:



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278. The valve that is present between right atrium and right ventricle can be named as.....

- A. Dissecting hearts of dead animals
- B. Dissecting hearts of dead people
- C. Dissecting the heart of live people
- D. Dissecting the heart of live animals

Answer:



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279. Marcello Malpighi studied.....and discovered the micro blood vessels called.....

A. Insects

B. Crow

C. Bats

D. Parrot

Answer:



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280. Which of the following carries substances upwards as well as downwards in a plant?

A. Trachieds

B. Vessels

C. Companion cells

D. Phloem

Answer:



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281. If we keep the potted plants under the fan
the rate of this process • increases

A. Transpiration

B. Absorption

C. Nutrition

D. Photosynthesis

Answer:



Watch Video Solution

282. In human body *A* is a pumping organ from lungs blood vessel *B* with oxygenated blood enters upper *C* part of left chamber of the organ. When "C" chamber contracts blood flows into "D" lower left chamber. "D" chamber contracts blood is pumped to all parts of the body except lungs through blood vessel *E*. Deoxygenated blood from body parts is collected by blood vessel "F " and opens upper "G" right chamber. This chamber contracts blood flows into "H" lower chamber Lastly "H" contracts Deoxygenated blood sent to lungs

by blood vessel "I"

b) (i) B (ii)E (iii) F and (iv) I are what blood vessels ? Write their names.

A. Ventricles

B. Atria

C. Lungs

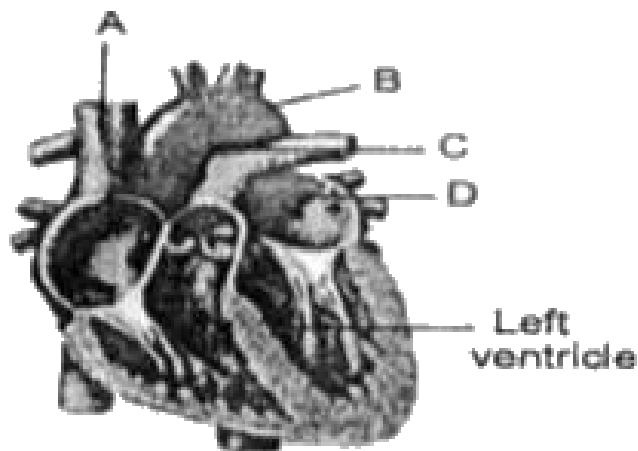
D. Kidneys

Answer:



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283. The diagram shows the heart with its main blood vessels



Which blood vessels carry oxygenated blood to the body tissues and deoxygenated blood

away from the body tissues ?

**Oxygenated blood to
body tissues**

**Deoxygenated
blood away from
body tissues**

1) B

A

2) B

C

3) C

A

4) C

D

A. Oxygen

B. Carbondioxide

C. Nitrogen

D. All the above

Answer:



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284. The valves which are present in the blood vessels are closed to prevent backward flow of blood into the ventricles we hear the sound of heart as

- A. Inter auricular septa
- B. Valves
- C. Atrioventricular septa
- D. All the above

Answer:



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285. In which organisms, blood does not supply the Oxygen?

A. Amphibians

B. Reptiles

C. Pisces

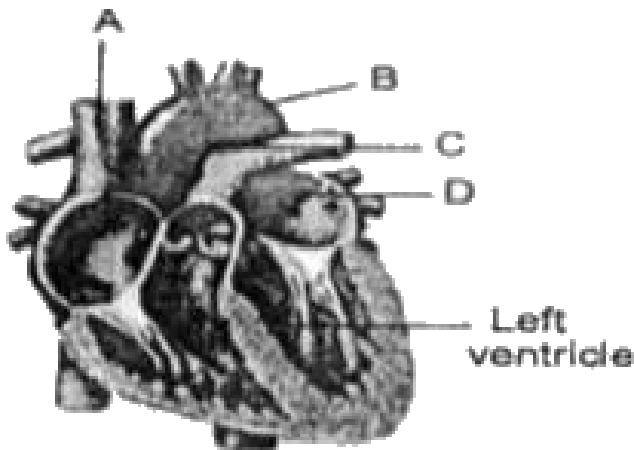
D. All the above

Answer:



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286. The diagram shows the heart with its main blood vessels



Which blood vessels carry oxygenated blood to the body tissues and deoxygenated blood

away from the body tissues ?

**Oxygenated blood to
body tissues**

**Deoxygenated
blood away from
body tissues**

1) B

A

2) B

C

3) C

A

4) C

D

A. Superior venacava

B. Inferior venacava

C. Pulmonary artery

D. Pulmonary vein

Answer:



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287. Which of the following helps in ascent of sap?

- A. Nutrition
- B. Transpiration
- C. Translocation
- D. Photosynthesis

Answer:



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288. Which of the following doesn't have valves?

A. Heart

B. Veins

C. Arteries

D. Capillaries

Answer:



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289. Hypertension is due to

- A. Constant strain and stress
- B. Improper functioning of kidneys
- C. Smoking and alcohol consumption
- D. All the above

Answer:



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290. Why should we measure B.P. in the upper arm artery?

- A. Systolic pressure
- B. Diastolic pressure
- C. Both A and 'B
- D. Coronary pressure

Answer:



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291. The pulse rate of children over 10 years and adults including senior citizens is

A. 60-100

B. 40-60

C. 100 - 150

D. 80-120

Answer:



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292. The deficiency of vitamin K causes

A. K

B. C

C. D

D. E

Answer:



Watch Video Solution

293. Which of the following ions play important role in blood clotting?

A. Heparin

B. Sodium citrate

C. Warfarin

D. Coumadin

Answer:



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294. The septum that divides the two ventricles can be named as.....

- A. Inter atrial septum
- B. Intra atrial septum
- C. Right atrial septum
- D. Left atrial septum

Answer:



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295. The hole present in the interventricular septum is called

- A. Two atria
- B. Two ventricles
- C. Right ventricle and right atrium
- D. Left ventricle and left atrium

Answer:



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296. The septum that divides the atrium and ventricle can be named as.....

- A. Inter atrioventricular septum
- B. Intra atrioventricular septum
- C. Atrioventricular' septum
- D. All the above

Answer:



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297. The aperture that is connecting the left atrium and left ventricle can be named as.....

- A. Left auriculoventricular aperture
- B. Right auriculoventricular aperture.
- C. Atrioventricular aperture
- D. All the above

Answer:



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298. The valve that is present between right atrium and right ventricle is called..... The valve that is present between left atrium and right ventricle is called.....

- A. Right atrium and Right ventricle
- B. Left atrium and Left ventricle
- C. Right atrium and Left ventricle
- D. Left atrium and Right atrium

Answer:



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299. Atrioventricular valves are opened due to

- A. Right atrium and Left ventricle
- B. Left atrium and Right atrium
- C. Left atrium and Left ventricle
- D. Right atrium and Left atrium

Answer:



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300. Heart is an important organ for circulation. For healthy heart everyone must

- A. Take nutritious food
- B. Do exercise daily
- C. Habituated to smoking
- D. A and B only

Answer:



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301. Doctors measure the blood pressure with a device. What is it?

A. Sphygmomanometer

B. Manometer

C. Hygrometer

D. Barometer

Answer:



Watch Video Solution

302. Which of the four chambers of the human heart has the thickest muscular walls?

- A. 1 auricle, 1 ventricle
- B. 2 auricles, 1 ventricle
- C. 1 auricle, 3 ventricles
- D. 2 auricles, 2 ventricles

Answer:



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303. If transportation does not take place in plants, what process will not occur?

- A. Photosynthesis
- B. Respiration
- C. Water transportation
- D. Reproduction

Answer:



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304. What are the first Eucoelomate animals?

A. Annelids

B. Arthropods

C. Coelenterata

D. Mollusca

Answer:



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305. Open type of circulatory system is seen in all of the following except

- A. Arthropoda
- B. Mollusca
- C. Lower chordates
- D. All the above

Answer:



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306. The organism which shows Brownian movements is

A. Sponges

B. Paramecium

C. Amoeba

D. Cnidarians

Answer:



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307. Gastrovascular cavity is developed in animals like

A. Sponges

B. Hydra

C. Jelly fish

D. B & C

Answer:



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308. The substance that contains blood without solid particles is

- A. Blood
- B. Lymph
- C. Blood cells
- D. None of the above

Answer:



Watch Video Solution

309. Name the straw coloured fluid portion after formation of blood clot?

A. Plasma

B. Serum

C. Lymph

D. All the above

Answer:



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310. Name very fine the blood vessels that connect the smallest arteries and veins in our body?

A. Veins

B. Arteries

C. Capillaries

D. All the above

Answer:



Watch Video Solution

311. Where do pulmonary vein which carries oxygenated blood open into?

A. Pulmonary artery

B. Pulmonary vein

C. Aorta

D. Capillaries

Answer:



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312. In some people blood does not coagulate.

Give the reasons for it?

A. Anaemia

B. Thalassemia

C. Hemophilia

D. Edema

Answer:



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313. Which atria receives deoxygenated blood from body?

- A. Inferior vena cava
- B. Superior vena cava
- C. Arteries
- D. Vein

Answer:



Watch Video Solution

314. In human body *A* is a pumping organ from lungs blood vessel *B* with oxygenated blood enters upper *C* part of left chamber of the organ. When "C" chamber contracts blood flows into "D" lower left chamber. "D" chamber contracts blood is pumped to all parts of the body except lungs through blood vessel *E*. Deoxygenated blood from body parts is collected by blood vessel "F " and opens upper "G" right chamber. This chamber contracts blood flows into "H" lower chamber Lastly "H" contracts Deoxygenated blood sent to lungs

by blood vessel "I"

b) (i) B (ii)E (iii) F and (iv) I are what blood vessels ? Write their names.

A. Right atrium

B. Left atrium

C. Right ventricle

D. Left ventricle

Answer:



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315. "Any structure that closes an aperture, and allows one way movement of materials is called valve. Now let us name the valves that are present in the chambers of the heart".

The valve that is present between left atrium and left ventricle can be named as.....

A. Right atrioventricular valve

B. Left atrioventricular valve

C. Right atrium valve

D. Left atrium valve

Answer:



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316. Lymph is a part of

- A. Greek word
- B. Arabic word
- C. Latin word
- D. None of these

Answer:



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317. Name the enzyme that is released by platelets when we got an injure and the blood came out?

A. Thrombokinese

B. Pro-thrombin

C. Thrombin

D. All the above

Answer:



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318. An inherited disorder related to blood is

A. Hypertension

B. Hemophilia

C. Cardio vascular

D. Thalassemia

Answer:



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319. B.P. will change according to the activity

A. Resting

B. Walking

C. Running

D. All the above

Answer:



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320. Explain the process of absorption of water by the root hair and movement of water in xylem.

A. Root pressure

B. Transpiration

C. Transportation

D. A & B

Answer:



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321. Every living part which acts as an osmotic system is

A. Cell

B. Blood

C. Serum

D. Organ

Answer:



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322. During osmosis, net flow of water through a semipermeable membrane is

A. nucleus

B. lysosome

C. Cytoplasm

D. Cell wall

Answer:



Watch Video Solution

323. Binding of symbiotic nitrogen fixing bacteria to the surface of root hair cell is promoted by the following substance

- A. Diffusion
- B. Osmosis
- C. Transpiration
- D. Root pressure

Answer:



Watch Video Solution

324. The amount of water that an oak tree can transpire the water per day is

- A. 900 liters
- B. 800 liters
- C. 700 liters
- D. None of the above

Answer:



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325. One acre of maize may transpire this amount of water in a hundred day growing season

- A. 15,35,000 liters
- B. 13,25,000 liters
- C. 13,00,000 liters
- D. 13,10,000 liters

Answer:



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326. How does the removal of a ring of bark and wood from the trunk of a tree kills it ?

- A. Above the ring
- B. Below the ring
- C. Above and below the ring
- D. None of these

Answer:



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327. Which animals are encouraged by foresters to keep down the population of voles and rabbits?

A. Voles

B. Rabbits

C. Grey squirrels

D. All the above

Answer:



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328. Arrange the flow chart in the correct order. (1) Organs → (2) Organ systems → (3) Cells → (4) Tissues → (5) Organism

A. 3,1,2,4,5

B. 3,5,4,1,2

C. 3, 1, 4, 2, 5

D. 3, 2, 1, 5, 4

Answer:



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329. Identify the mismatched pair.

1) WBC → Oxygen transportation

2) RBC → Microscopic policeman

3) Platelets → Blood coagulation.

A. 1,3

B. 2,3

C. 3 only

D. 1,2

Answer:



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330. Observe the following statements. a) Right atrium received deoxygenated blood from body parts.b) Pulmonary vein carries oxygenated blood to the left atrium

A. a correct b false

B. b correct a false

C. both a, b false

D. both a and b correct

Answer:



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331. How can you prove that the water transport through the xylem?

- A. Osmosis
- B. Translocation
- C. Root pressure
- D. Transpiration stream

Answer:



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332. What happens, if damage occurred all around the stem of a tree?



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333. Earthworm : Pulsative vessel,

Arthropods :?

A. Closed type circulatory system

B. Open type circulatory system

C. Mixed type circulatory system

D. None

Answer:



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334. Read the following statements. a) The cardiac cycle is completed in 0.8 seconds, b)

Marcello Malpighi discovered blood capillaries
in the wings of the bat:

A. a correct, b false

B. b correct a false

C. both a, b false

D. both a, b correct

Answer:



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