



BIOLOGY

BOOKS - MBD

Body Fluids and Circulation



1. List the two types of circulatory system.

2. Name the components of blood vascular system. Watch Video Solution 3. What are two major components of lymphatic sytem? Watch Video Solution

4. What are the two main types of blood vascular system?
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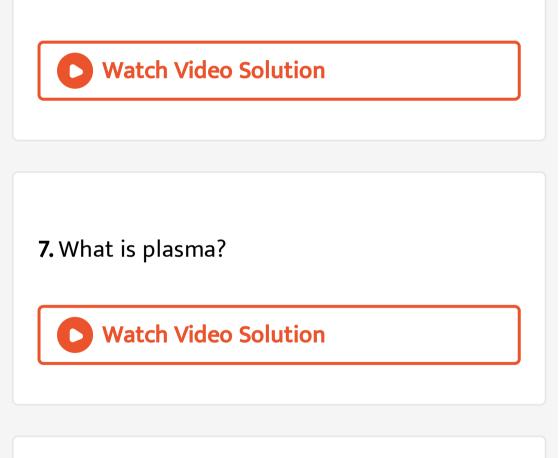
5. Give examples of animals having open type

of circulation.



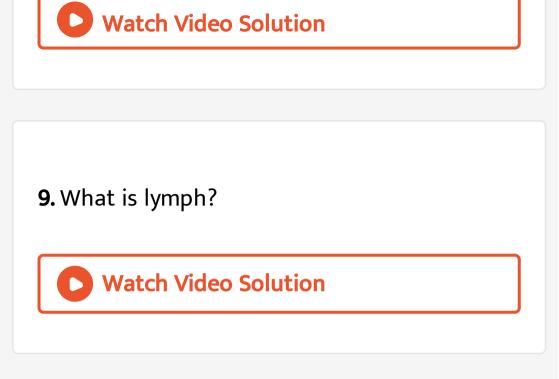
6. In the invertebrates respiratory pigment if

present it lies in which components?



8. How much haemoglobin is present in blood

of healthy individual?



10. Which one of the following type of cells lack nucleus?

A. RBC

B. Neutrophils

C. Esoinosphils

D. Monocytes

Answer:



11. Which one of the following blood cells is

involved in antibosy production?

A. B-Lymphocytes

B. T-Lymphocytes

C. RBC

D. Neutrophils

Answer:



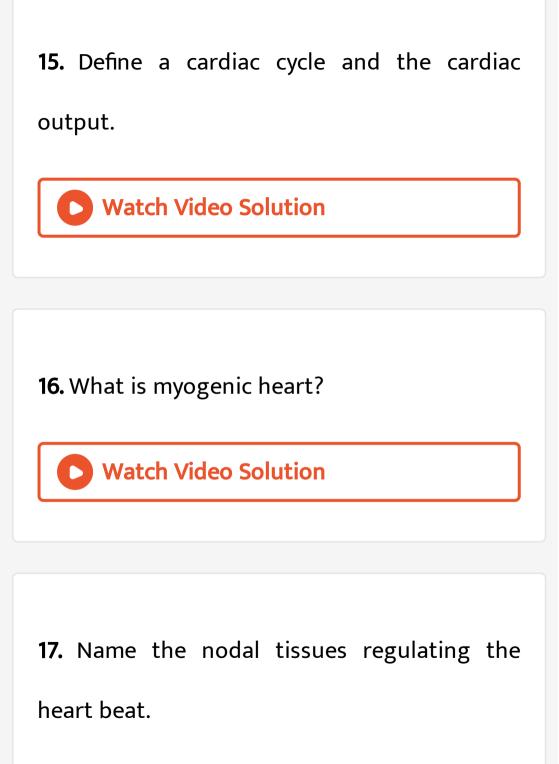
12. Name 2-layered sac surrounding the human

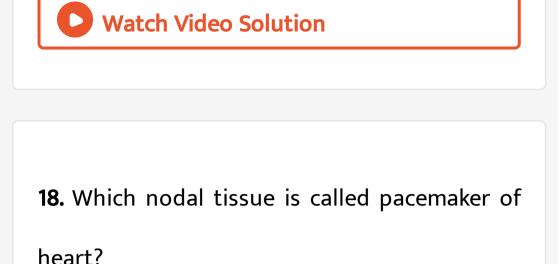
heart.

13. How many times the heart of a normal person beat per minute?
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14. Give the location of mitral value and semilunar values.





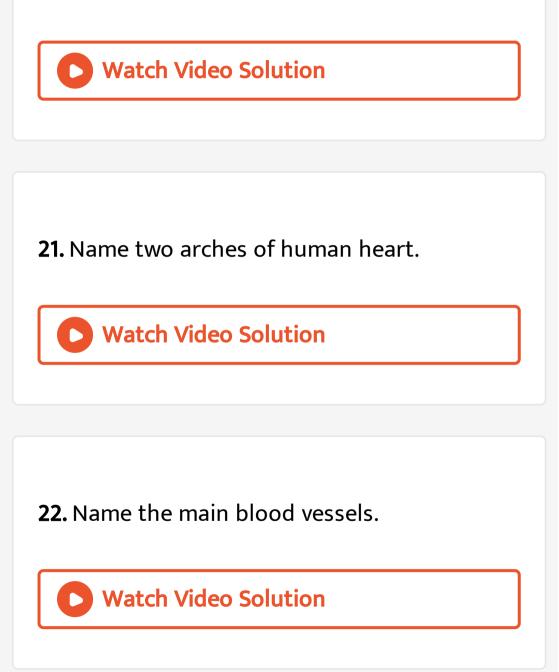


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19. Give the position of cardiac centres.



20. Give the function of chordae tendinae.



23. Name the blood vessel bound by single

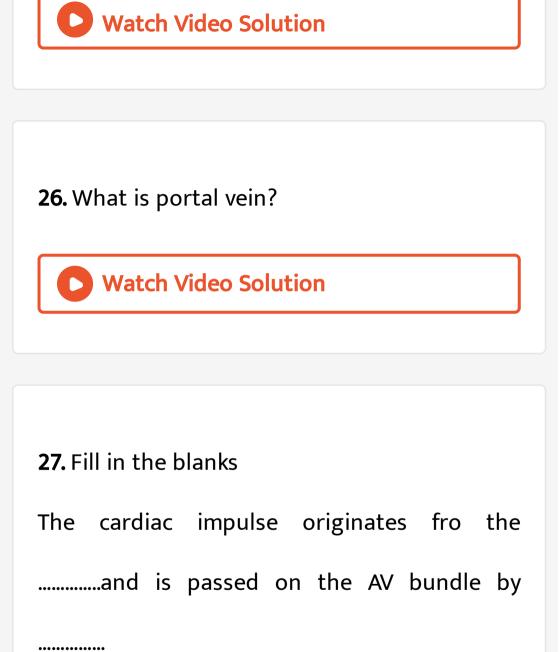
layer of epithelium.



24. Name the three layer of blood vessels.

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25. Name the vessels which collect or bring blood to the heart.





28. Fill in the blanks

Thevalue close shortly after the start of

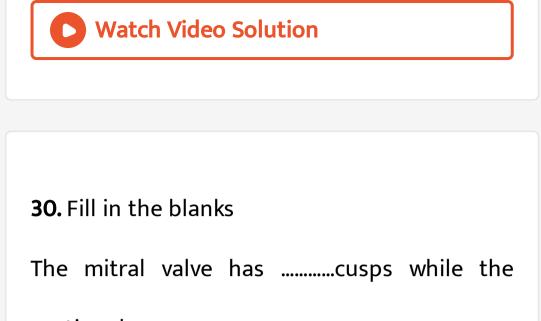
ventricular systolle while thevalves close

shortly after the diastole starts.

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29. Fill in the blanks

Vena cava drain the blood into theatrium while pulmonary veins drain the blood into theatrium.



aortic valve possessescusps.



31. Fill in the blanks

The human heart consists ofchambers

while fish heart has Chambers.





32. True or False

Both the auricles of the amphibian heart open

into the same ventricle.

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33. True or False

Prawn heart carries only oxygenated blood.

34. True or False

Purkinje fibres are nerve fibres supplying the

ventricular muscle.



35. True or False

The first heart sound results from a closure of

semilunar valves.

36. True or False

The vagus nerve reduces the heart rate.



37. Give the technical terms used for the following:

A thin-walled sac surrounding the heart.



38. Give the technical terms used for the following:

Portal vein and its branches collectively form

system.

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39. Give the technical terms used for the following:

A wave of distension and recoiling of the

radial artery due to contraction of the left ventricle.



40. Give the technical terms used for the following:

A group of cardiac muscles with wall of right atrium. It starts rhythmic waves of contraction

of heart.



41. Give the technical terms used for the following:

Blood passes twice through the heart to

supply once to the body.

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42. Name the components of the formed elements in the blood and mention one major function of each of them.

43. What is the importance of plasma proteins?

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44. Match column I with column II.

Column I Column II (i) Eosinophils Coagulation (ii) RBC Universal Recipient

(iii) AB Group(iv) Platelets(v) Systole

Resist Infections. Contraction of Heart. Gas transport.

45. Why do we consider blood as a connective

tissue?

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46. What is the differences between lymph and

blood?



47. What is meant by double circulation? What

is its significance?

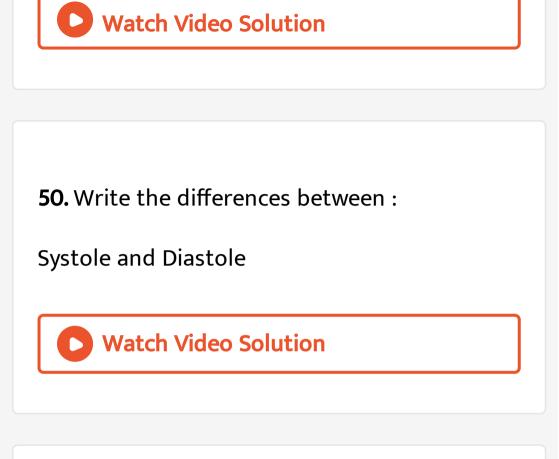
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48. Give difference between blood and lymph

Watch Video Solution

49. Write the differences between : Open and

Closed system of circulation

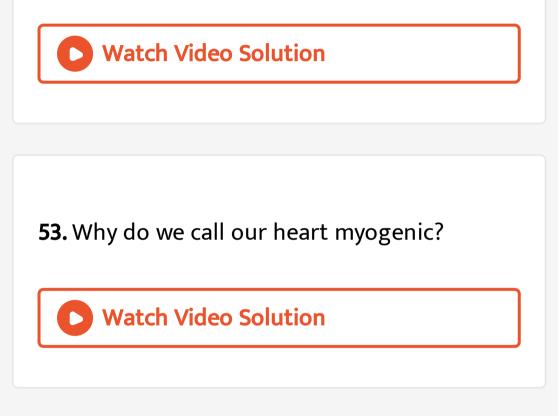


51. Write the differences between :

P-wave and T-wave.

52. Describe the evolutionary change in the

pattern of heart among the vertebrates.



54. Why is the S-A node called pace-maker of

the heart?



55. What is the significance of atrio-ventricular

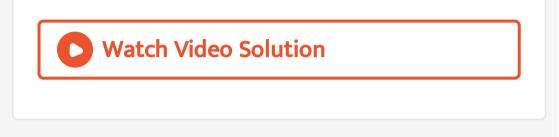
node and atrio-ventricular bundle in the

functioning of heart?

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56. Define a cardiac cycle and the cardiac output.

57. Explain heart sounds.



58. Draw a standard ECG and explain the

different segments in it.

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59. Name the blood component which is viscous and straw coloured fluid.



60. Complete the missing word in the statement given below:

Plasma withoutfactors is called serum.

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61. Complete the missing word in the statement given below:

.....and monocytes are phagocytic cells.





62. Complete the missing word in the statement given below:

Eosinophils are associated withreactions.

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63. Complete the missing word in the statement given below:

.....ions play a significant role in clotting.

64. Complete the missing word in the statement given below:

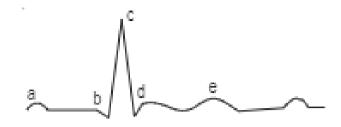
One can determine the heart beat rate by

counting the number ofin an ECG.

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65. Given below is the diagrammatic representation of a standard ECG. Label its

peaks





66. Name the vascular connection that exists

between the digestive tract and liver.



67. Given below are the abnormal conditions related to blood circulation. Name the disorders.

Acute pain in chest due to failure of O_2 supply

of heart muscles.

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68. Given below are the abnormal conditions

related to blood circulation. Name the



Increased systolic pressure

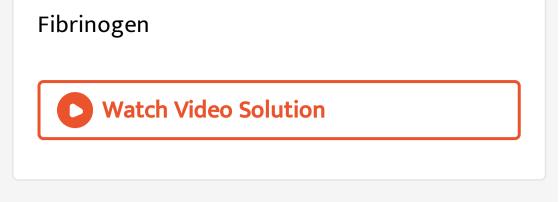


69. Which coronary artery diseases is caused

due to narrowing of the lumen of arteries?

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70. State the functions of the following in blood.

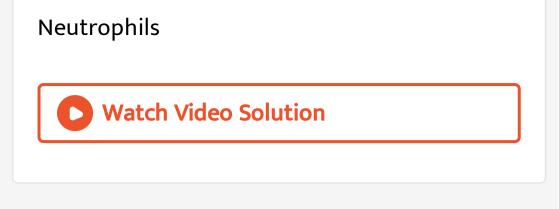


71. State the functions of the following in blood.

Globulin

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72. State the functions of the following in blood.



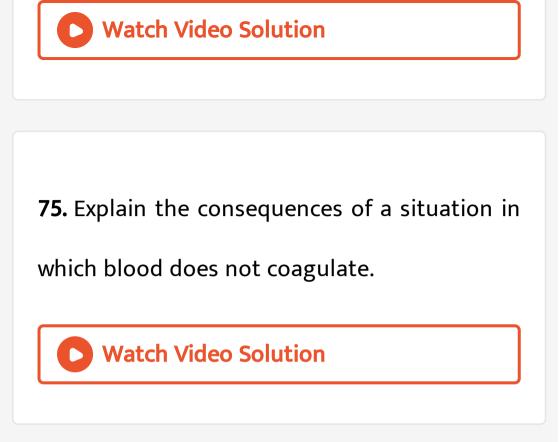
73. State the functions of the following in blood.

Lymphocytes

> Watch Video Solution

74. What physiological circumstances lead to

erythro-blastosis foetalis?



76. What is the significance of time gap in the

passage of action potential from sino-atrial

node to the ventricle?

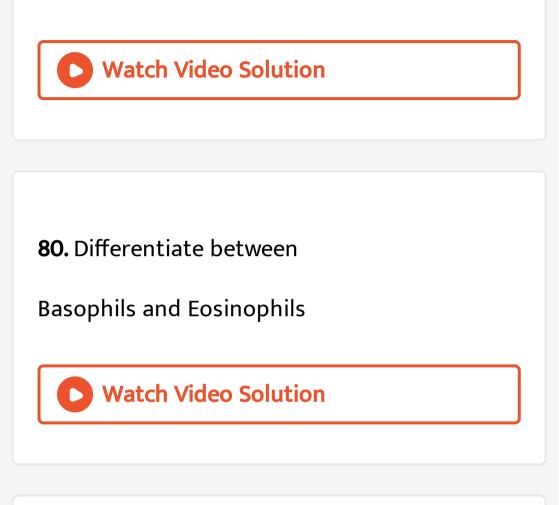
77. How will you interpret an electrocardiogram (ECG) in which time taken in QRS complex is higher?

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78. The walls of ventricles are much thicker

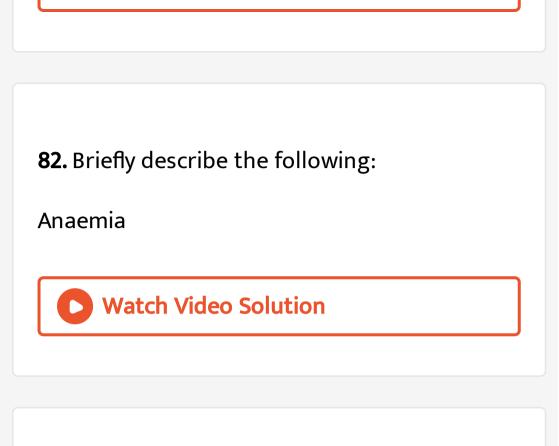
than atria. Explain.





81. Differentiate between

Tricuspid and bicuspid valve



83. Briefly describe the following:

Angina pectoris

84. Briefly describe the following:

Athersclerosis

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85. Briefly describe the following:

Hypertension

86. Briefly describe the following:

Heart failure

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87. Briefly describe the following:

Erythroblastosis foetails

88. Explain the advantage of the complete partition of ventricle among birds and mammals and hence leading to double circulation.

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89. What is the significance of hepatic portal

system in the circulatory system?

90. Explain the functional significance of

lymphatic system.

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91. Write the features that distinguish

between the two

Plasma and serum



92. Differentiate between

Open and closed circulatory system

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93. Write the features that distinguish

between the two

Sino-atrial node and Attrio-ventricular node

94. Thrombocytes are essential for

coagulation of blood. Comment.

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95. Name the major site where RBCs are formed.

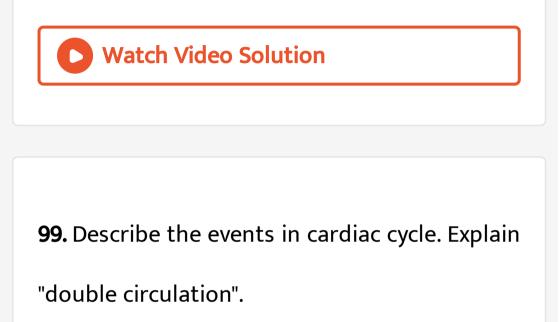
96. Which part of heart is responsible for initiating and maintaining its rhythmic activity?



97. What is specific in the heart of crocodiles

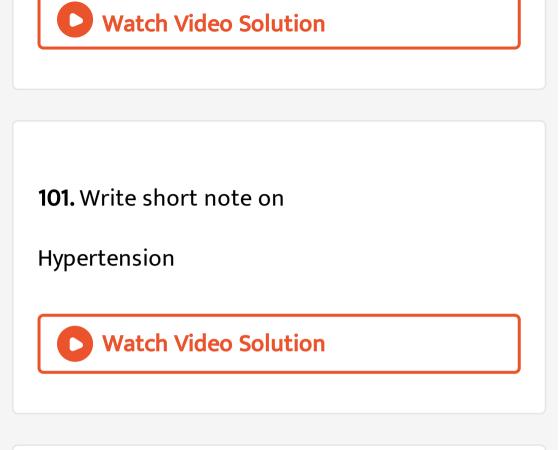
among reptillians?

98. Explain Rh-incompatibility in humans.



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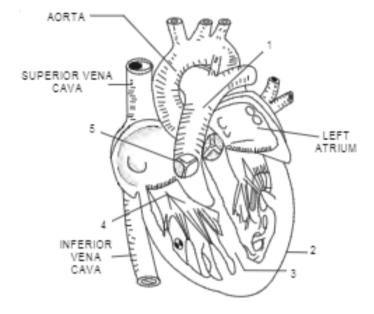
100. Explain different types of blood groups and donor compatibilty by making a table.



102. Write short note on

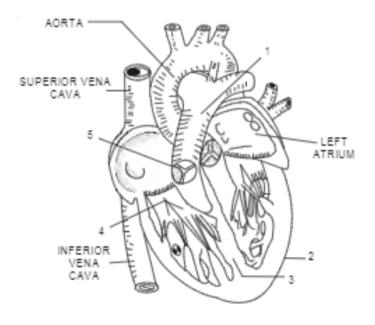
Coronary Artey Disease.

103. Figure of internal structure of mammalian heart is provided. Carefully study it and Name the parts labelled as 1, 2, 3, 4, 5.

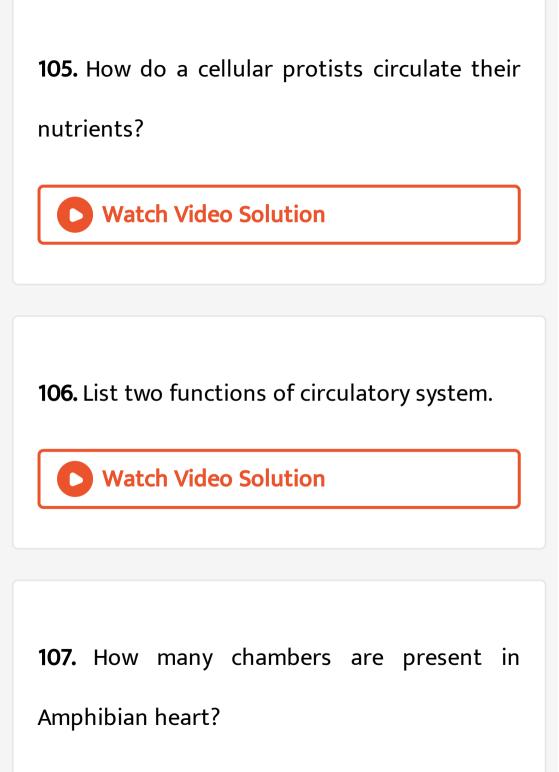




104. Figure of internal structure of mammalian heart is provided. Carefully study it and Give one most important function of Each of these parts.







Γ



108. Name the following:

The instrument which is used for counting the

R.B.C. in blood

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109. Name the following:

The tissue which produces blood corpuscles.

110. Name the following:

The process of formation of blood corpuscles

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111. Name the following:

The specialist in the study of blood

112. Who discovered circulation of blood?



113. Name the haemopoietic organs in the

human body.

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114. What is fossa ovalis?

115. What for E.C.G. abbreviation stands?

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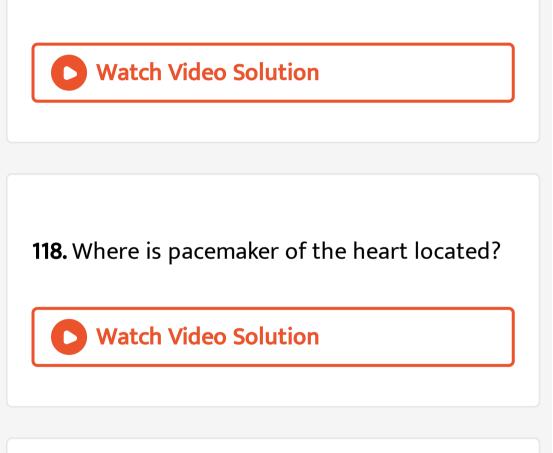
116. Name the blood vessel which supply blood

to the human heart.



117. Give the names of the histological layers of

heart.



119. Which portal vein is not present in man?

120. What is the quantity of blood in a healthy

human body?



121. Write duration of lubb and dub.



122. Name the disorder caused due to rise in

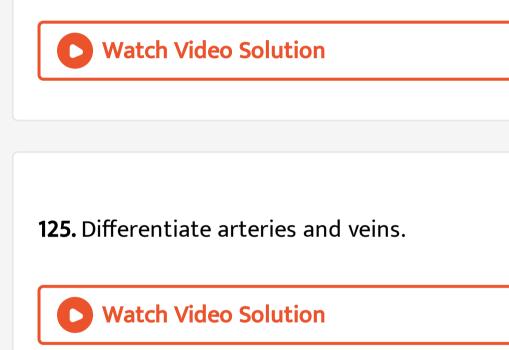
level of cholestrol in the body.

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123. List the functions of circulatory system or blood.

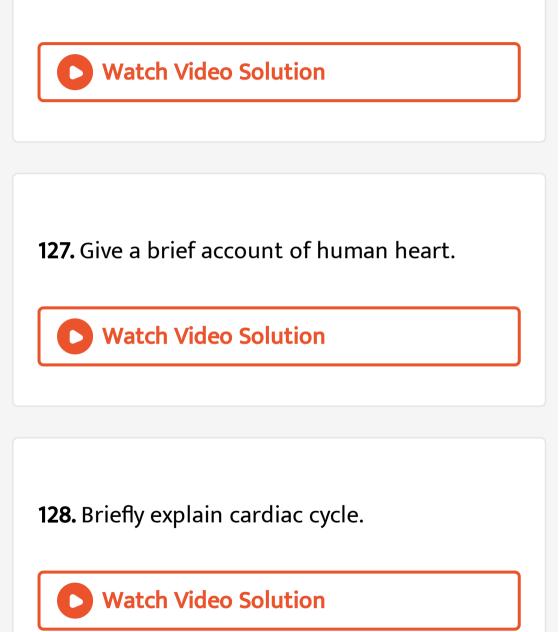
124. Write the differences between blood and

haemolymph.

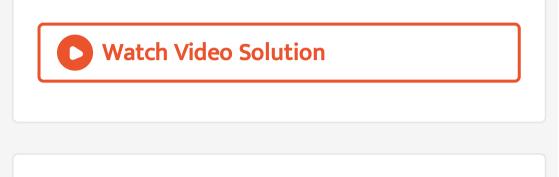


126. Who discovered circulation of blood? Briefly give an account of circulation of blood with reference to single circulation and double

circulation.



129. Explain valves of heart.

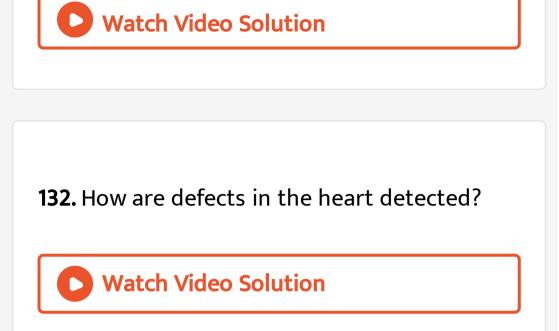


130. Differentiate pulmonary circulation and

systemic circulation.

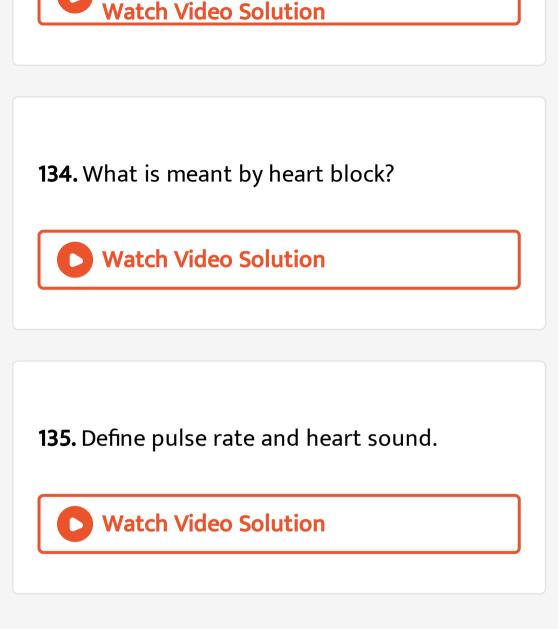
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131. What are the causes which result into malfunctioning of cardiac valves?



133. Trace the path of a fat molecule from the time it leaves the intestine until it is deposited in the fatty tissue of the body. Name in order, all the structures it passes through on the way.





136. What is a pace maker? Why is it called life-

saving instrument?

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137. Write a note on heart beat.

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138. What is blood pressure? Explain

139. What do you understand by cardiac

output?



140. Describe hepatic portal system.



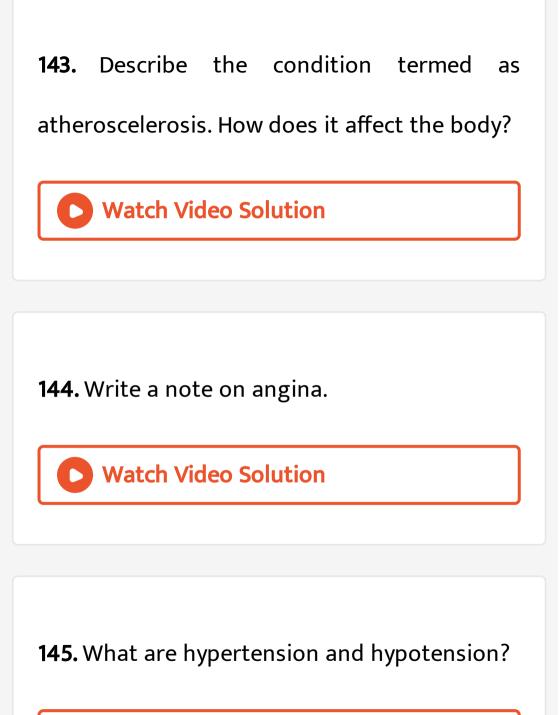
141. Why is a mammalian heart referred to as

myogenic?

Watch Video Solution

142. Define a portal vein. Explain the functions

of such a vein in our digestive tract.



146. What do you understand by heart failure

and heart attack?



147. What is blood? Describe its components.



148. Draw the structure of human heart.



149. Describe the conducing system of human

heart.

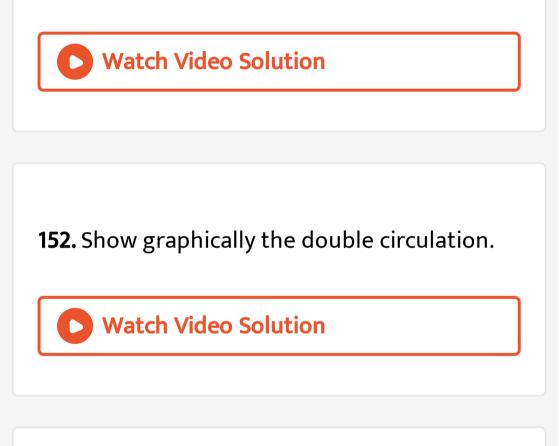
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150. What is SA node? Where is it located?

What is its function?

151. Draw diagram to show the condition in

human heart.



153. Why does the atrial systole normally precede the ventricular systole?





154. Why is the S-A node called pace-maker of

the heart?



155. Why does the ventricle relax as a closed

chamber in the early phase of its diastole?

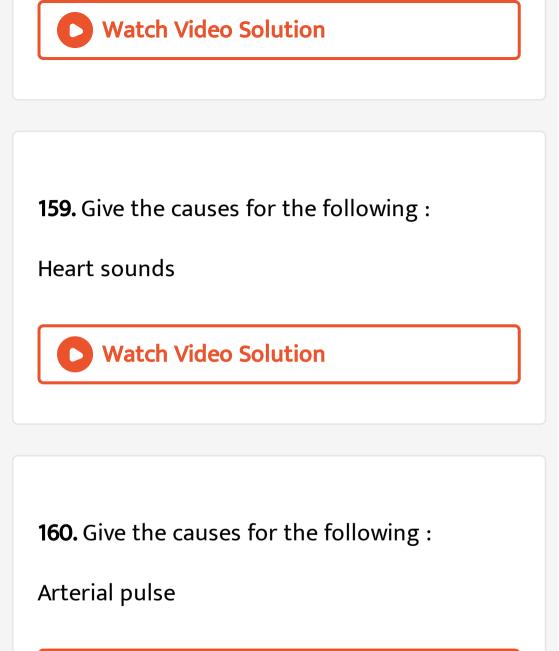
156. Why is there no mixing of deoxygenated and oxygenated bloods in the human heart normally?

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157. Why can you palpate the pulse on an artery in each heart beat?

Watch Video Solution

158. How is blood returned in veins?

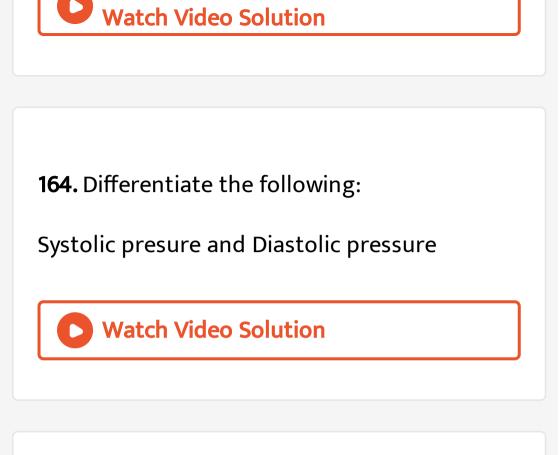


161. What is lymphatic system? Discuss its importance. Watch Video Solution **162.** What is artificial pacemaker? Watch Video Solution

163. Differentiate the following:

Artial systole and Ventricular systole





165. Differentiate the following:

Lub and dubb.

166. Why does the lymph contain much less

proteins than plasma?

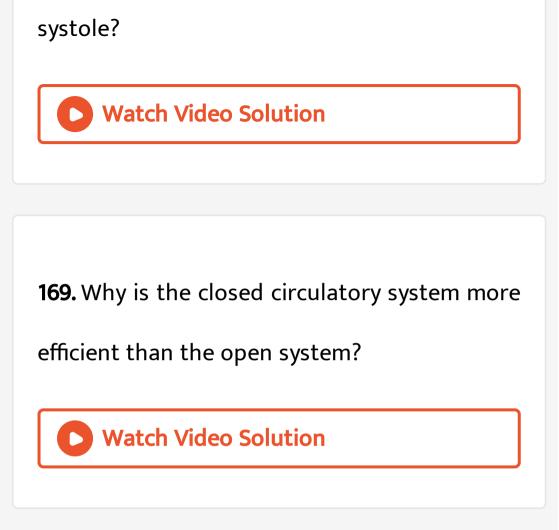


167. Why is the AV bundle essential for the

conduction of cardiac impulses?

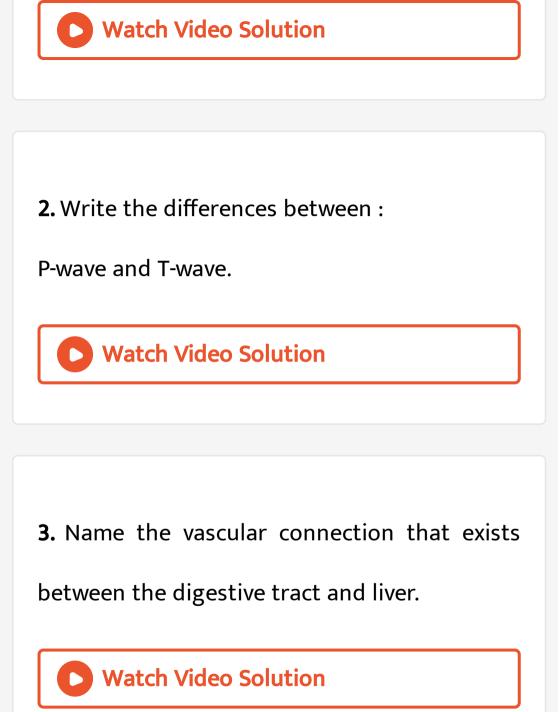
Watch Video Solution

168. Why does the ventricle contract as a closed chamber in the early phase of the





1. Define erythrocytes and leucocytes.



4. What is the consequence if blood does not

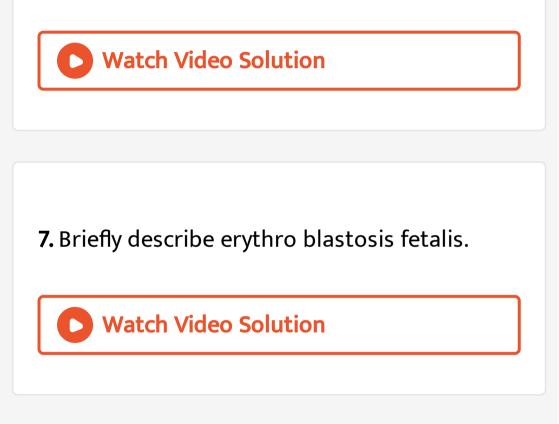
coagulate?

|--|

5. Name the haemopoietic organs in the human body.

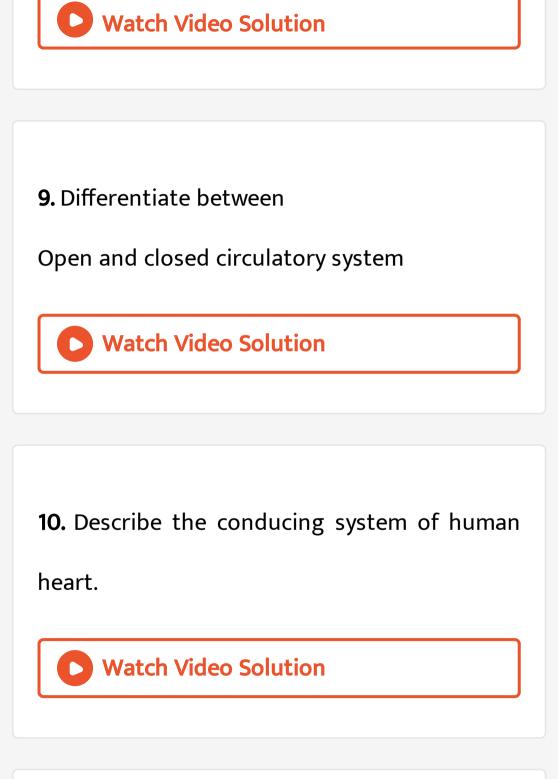
6. The walls of ventricles are much thicker than

atria. Explain.



8. Explain the functional significance of lymphatic system.

Γ



11. Explain the following

Heart sounds



12. Explain the following

Blood pressure.

13. What is ECG? What are different phases? How is it useful in study of working of human heart?



14. Describe the Rh-incompatibility.



15. Draw the structure of human heart.

