



BIOLOGY

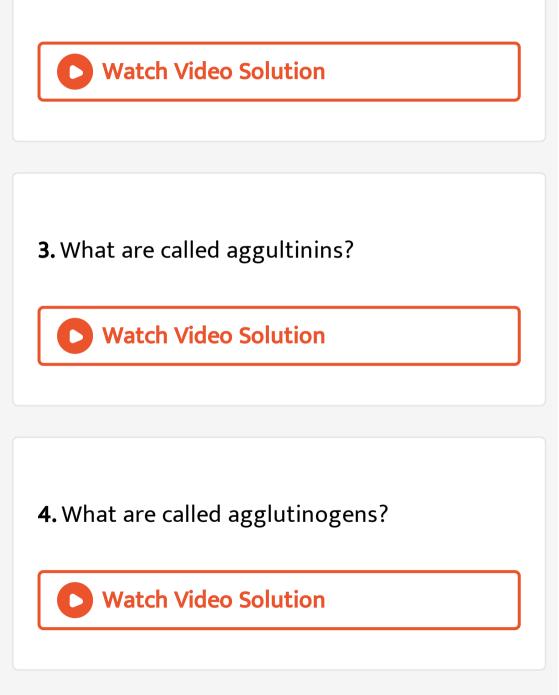
BOOKS - SARAS PUBLICATION

Body Fluids And Circulation

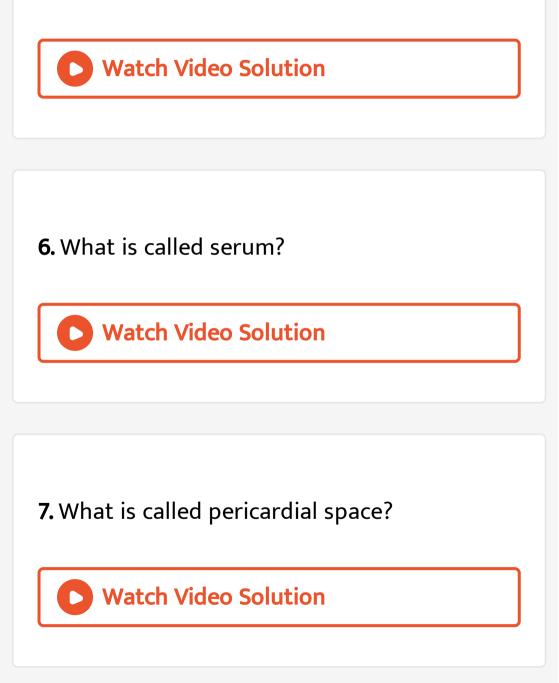


1. What is called haematocrit?

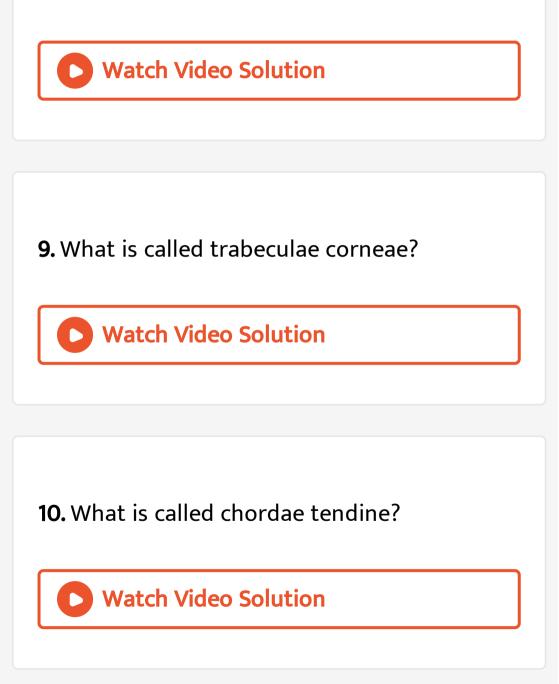
2. What are called polymorphonuclear cells?



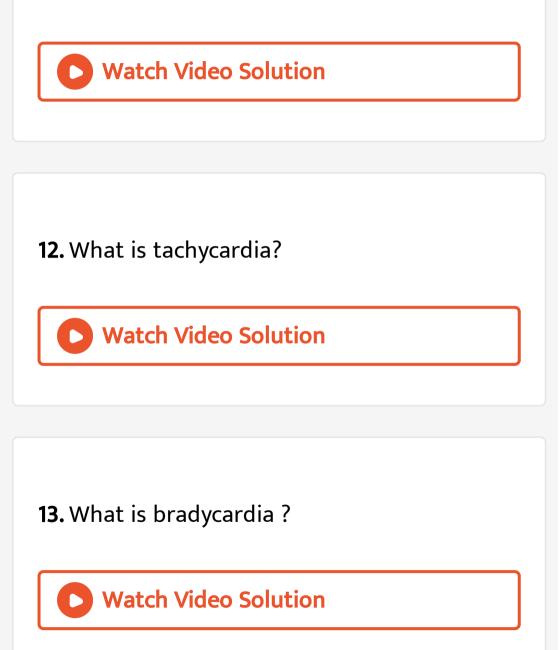
5. What is called blood clotting?

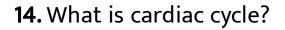


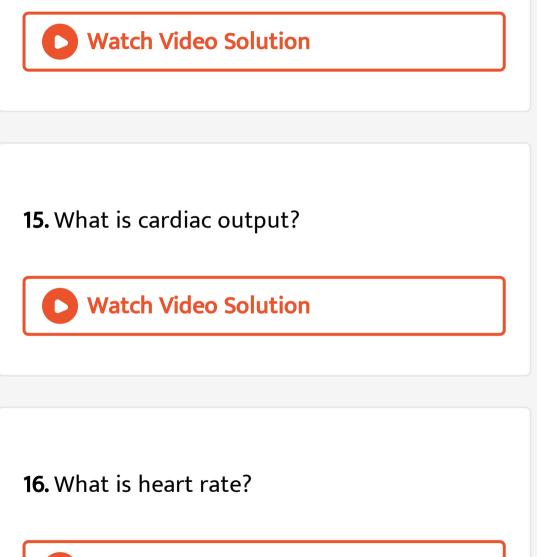
8. What are called semilunar valves?



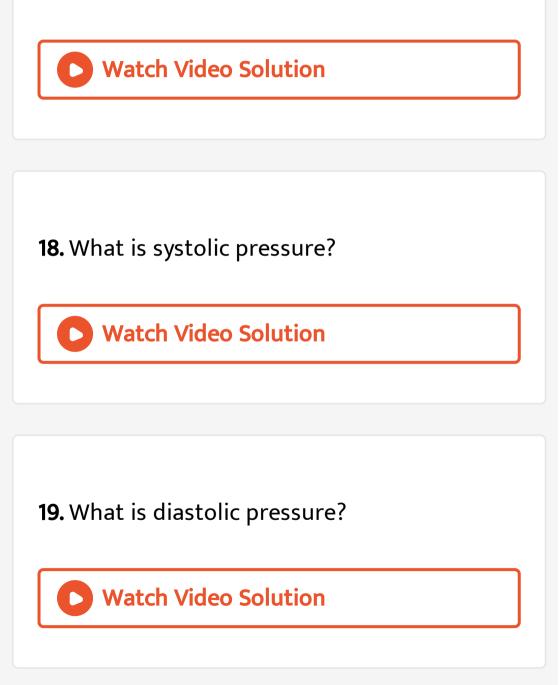
11. What is called AV node?



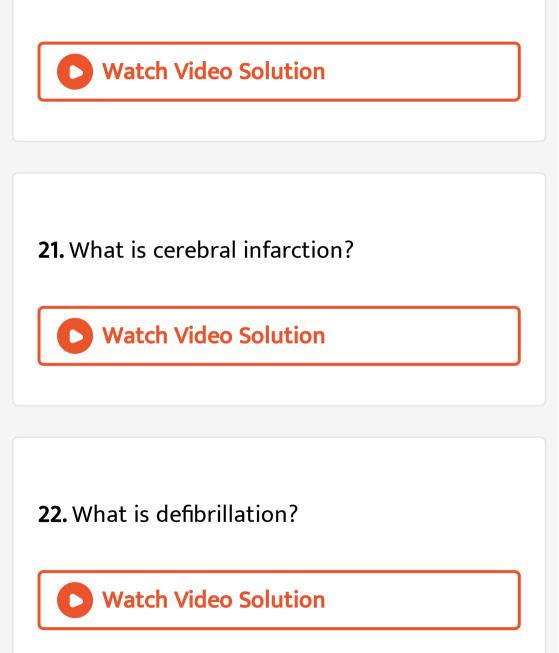




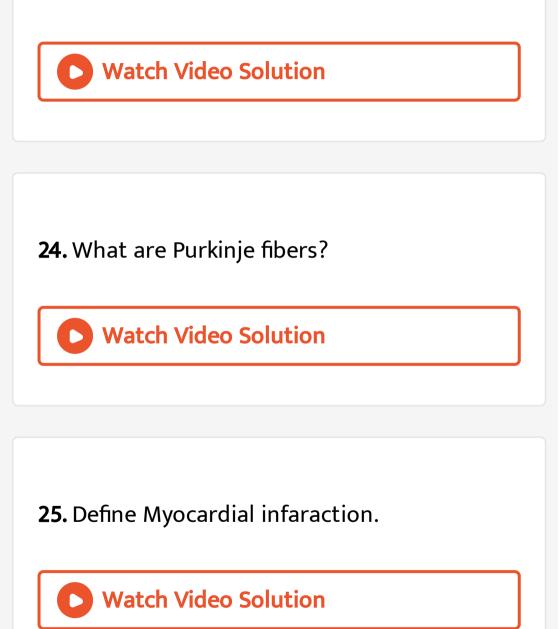


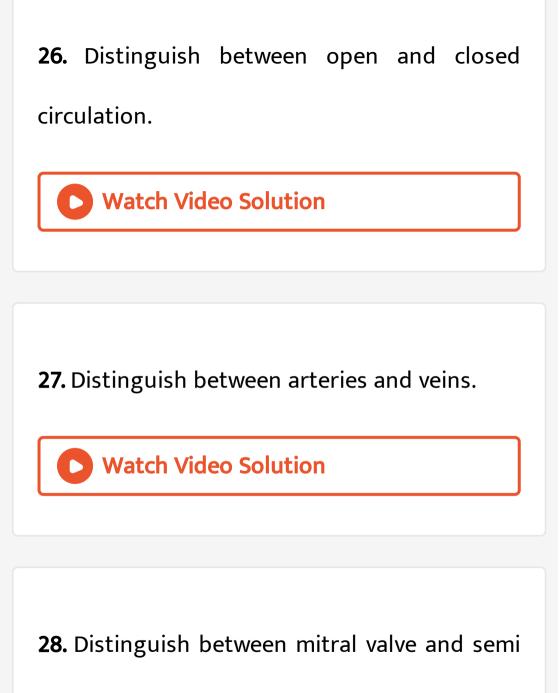


20. What is atherosclerosis?

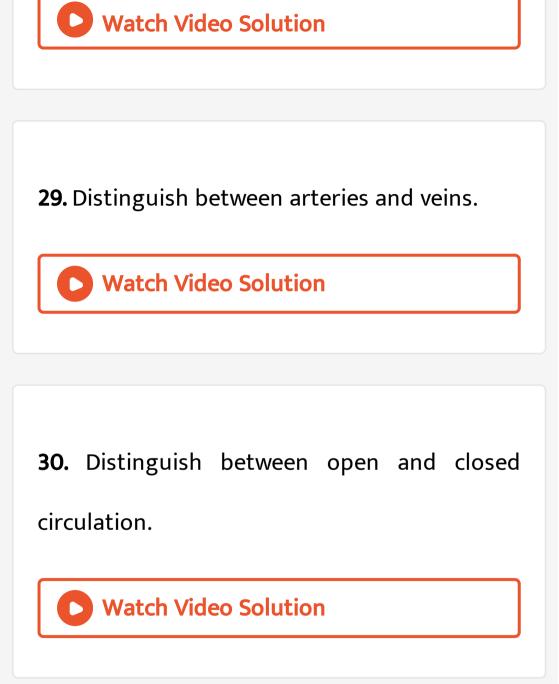


23. What is pericarditis?





lunar valev.



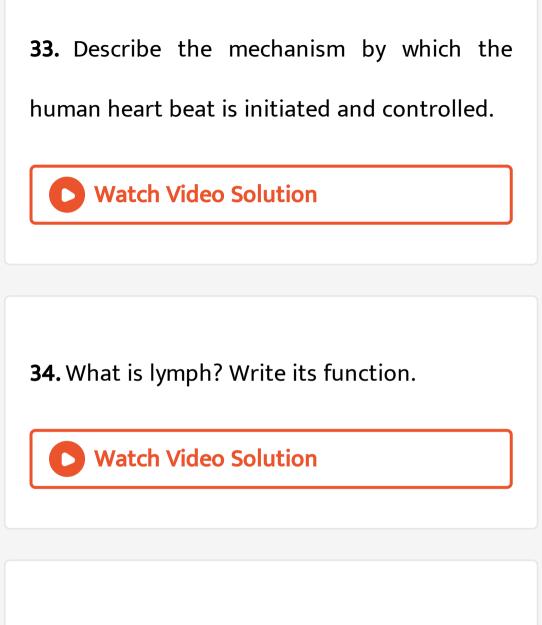
31. Distinguish between mitral valve and semi

lunar valev.

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32. Right ventricular wall is thinner than the

left ventricular wall. Why?



35. What are the heart sounds? When and how

are these sounds produced?



36. Select the correct biological term. Lymphocytes, red cells, leucocytes, plasma, erythrocytes, white cells, haemoglobin, phagocyte, platelets, blood clot.

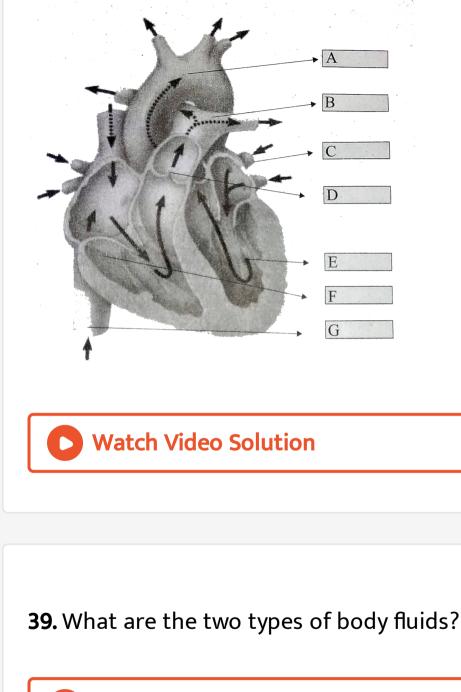
Another name for white blood cells.

37. Select the correct biological term. Cardiac muscle, atria, tricuspid valve, systole, auricles, arteries, diastole, ventricles, bicuspid valve, pulmonary artery, cardiac cycle, semi lunar valve, veins, pulmonary vein, capillaries, vena cava, aorta. The main artery of the blood.

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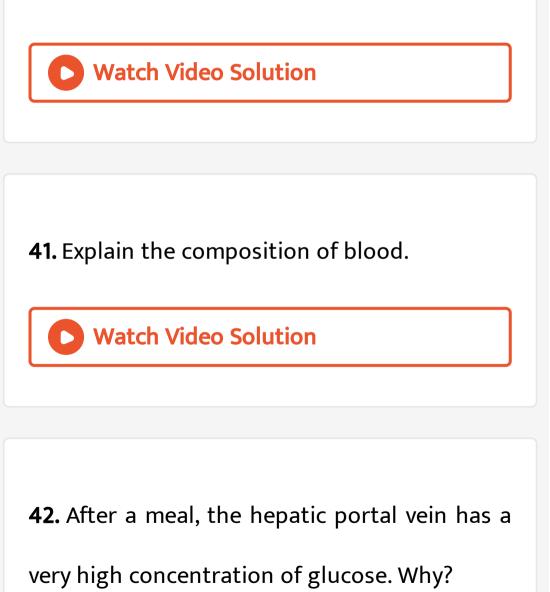
38. Name and label the given diagram to show

A,B,C,D,E,F and G.



40. What are the three types of extra-cellular

fluids?





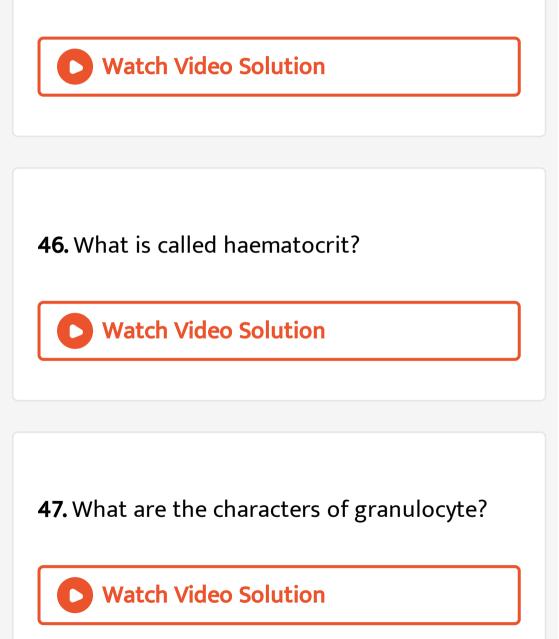
43. Mention the function of haemoglobin in

natural process.

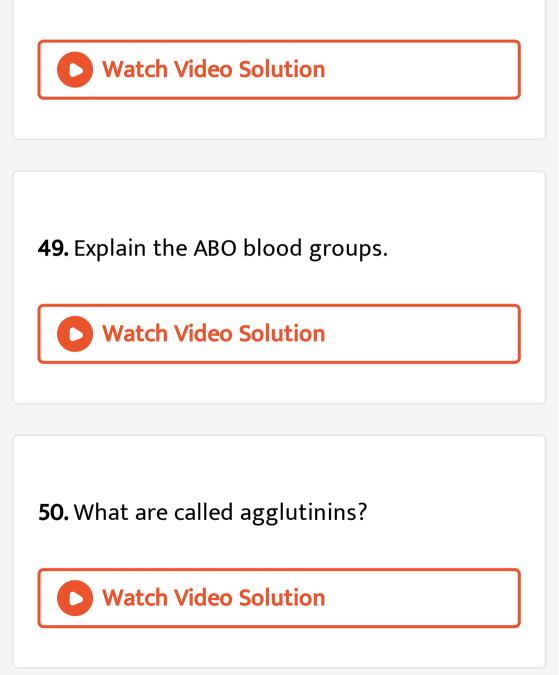
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44. Oxygen carrying capacity of blood is

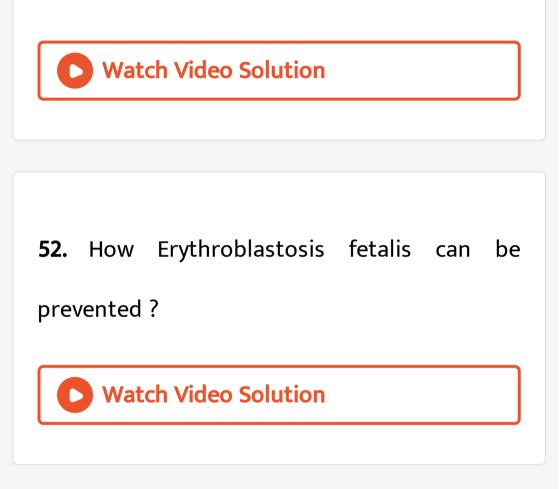
45. Write short notes on Erythropoietin.



48. What are called polymorphonuclear cells?



51. What are called agglutinogens?



53. What is called blood clotting?

54. What is called serum?

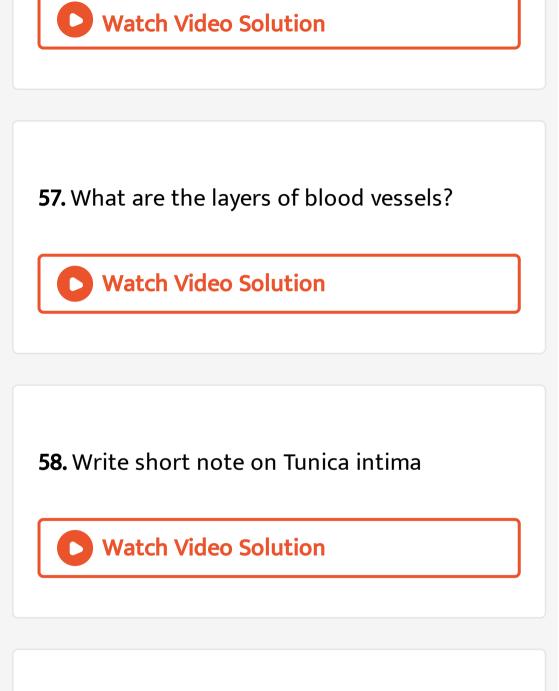
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55. Explain the Lymphatic System with diagram

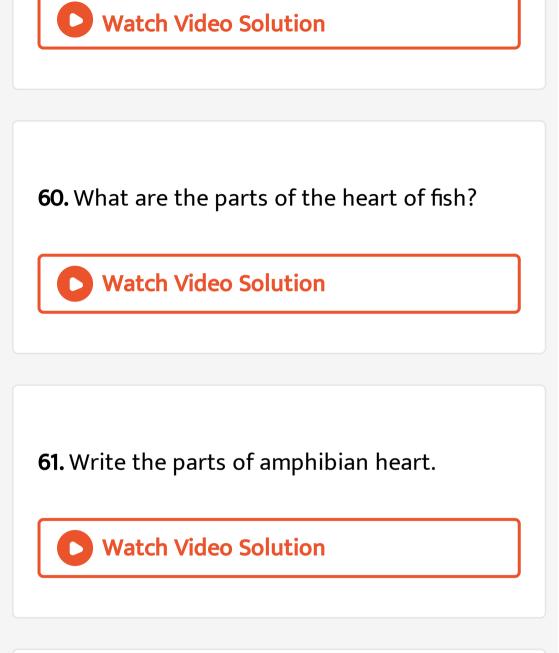
and mention the function of Lymph.

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56. What are the three types of blood vessels?



59. Write short notes on Tunica externa



62. Write the parts of reptiles heart.

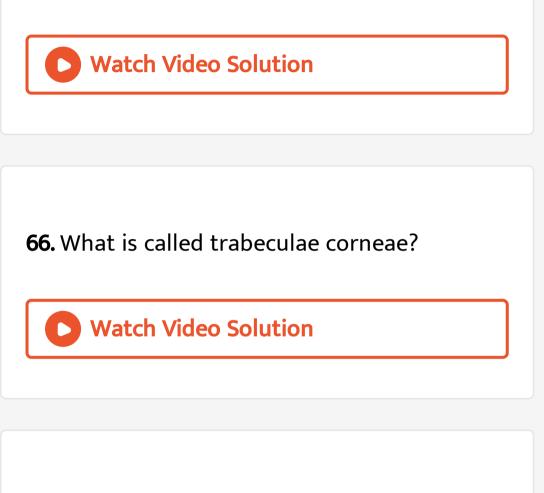


63. The heart wall is made up of outer epicardium, middle myocardium and the inner.....

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64. What is called pericardial space?

65. What are called semilunar valves?



67. What are chordae tendinae and what is

their function?

68. What is called AV node?



69. What is tachycardia?

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70. What is bradycardia ?

71. What is Cardiac Cycle?



72. What is cardiac output?

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73. Determining Heart Rate:

74. What is Blood Pressure? How is blood pressure expressed?

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75. What are the two types of pressure in

heart?

76. Write the difference between the systolic

and diastolic pressure ?

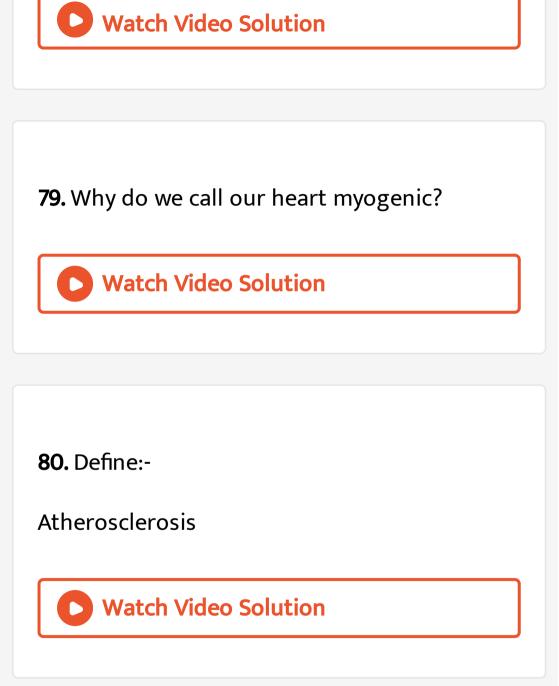
Watch Video Solution

77. Write the difference between the systolic

and diastolic pressure ?

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78. What is called SA node in heart?



81. What is cerebral infarction?

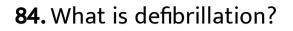


82. Explain the disorder of rheumatoid heart

disease

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83. When CPR procedure will be applied?

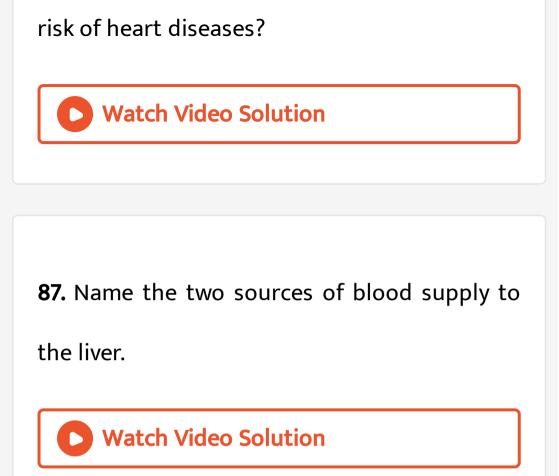




85. What is pericarditis?

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86. Which cholesterol lowers the risk of heart disease and which cholesterol increases the



88. Protein molecules of larger size can pass

through the lymph vessel? Give reason.

89. Why there are no blood capillaries in the

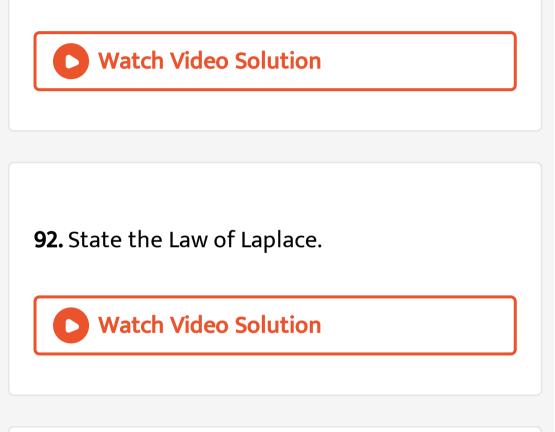
cornea of the eye and cartilage? How are these

regions supplied with the required nutrients?

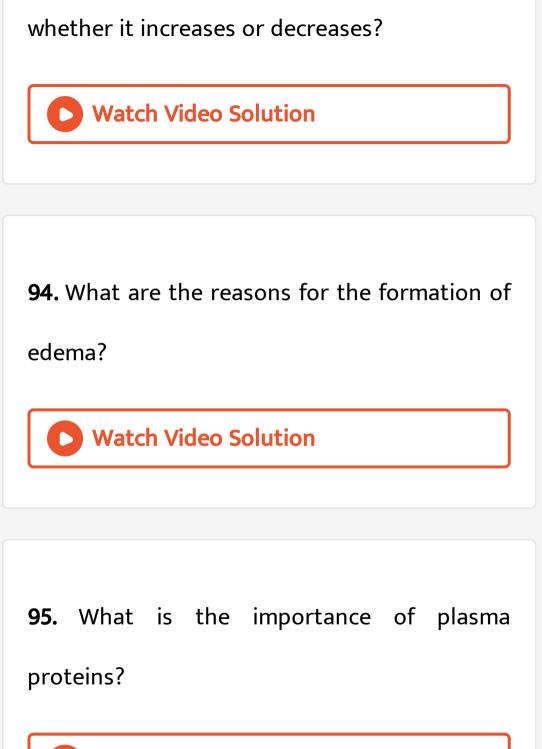
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90. Suggest why arteries close to the heart have more elastic fibres in their walls than arteries further away from the heart?

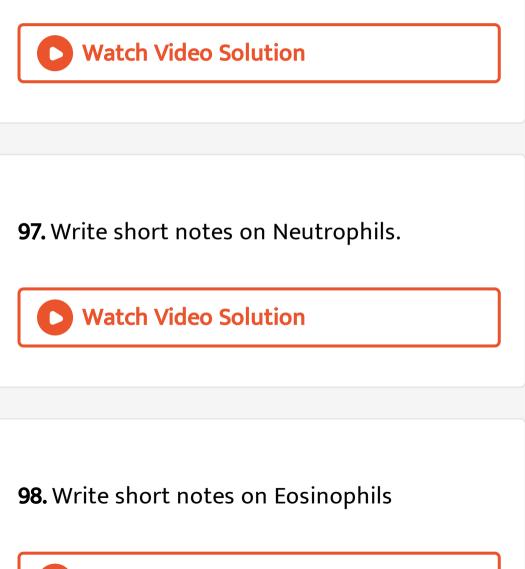
91. Write the uses of the Law Laplace.



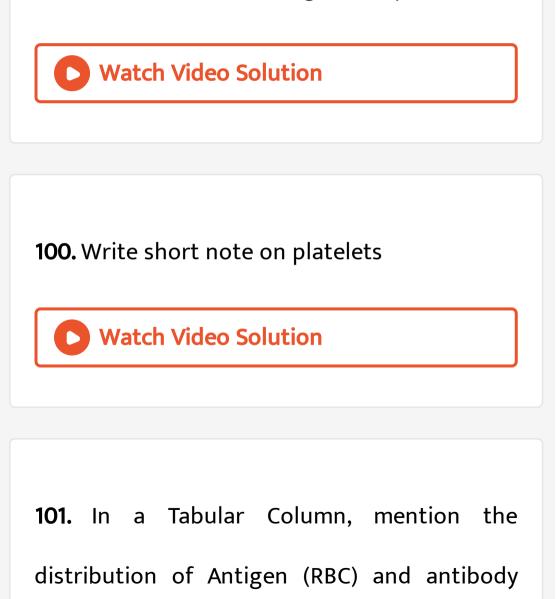
93. When blood volume drops down abruptly, what happens to the stroke volume? State

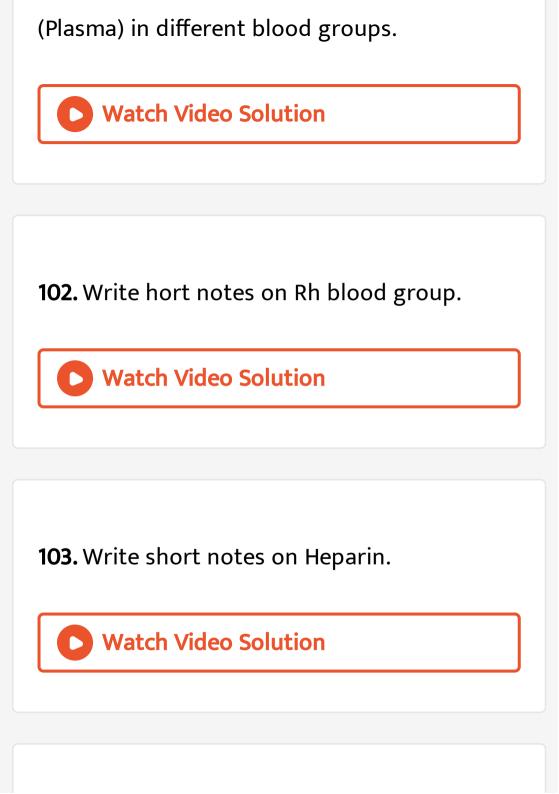


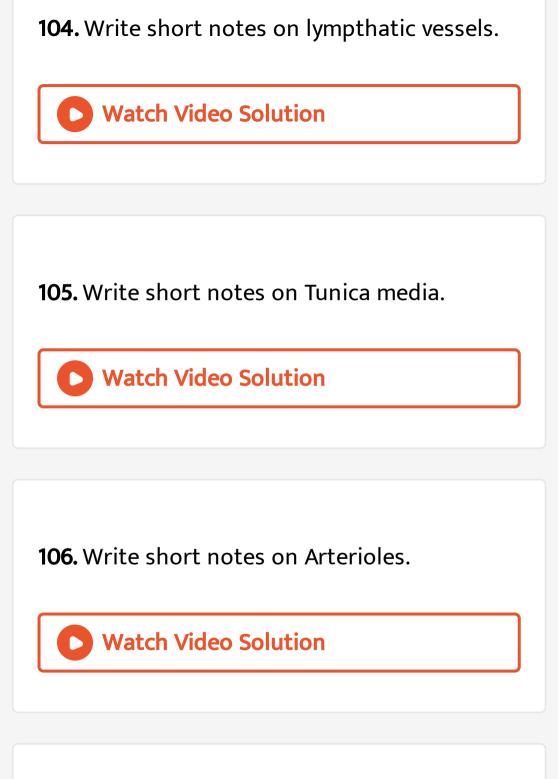
96. Write the features of white blood cells?



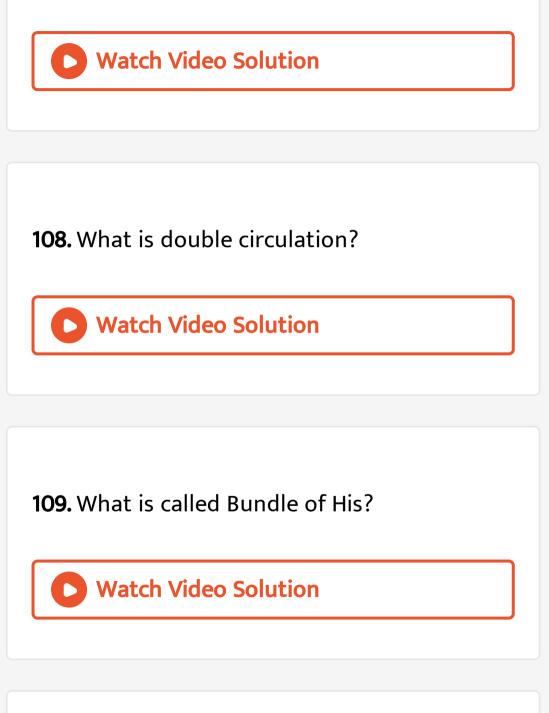
99. Write short notes on agranulocytes.

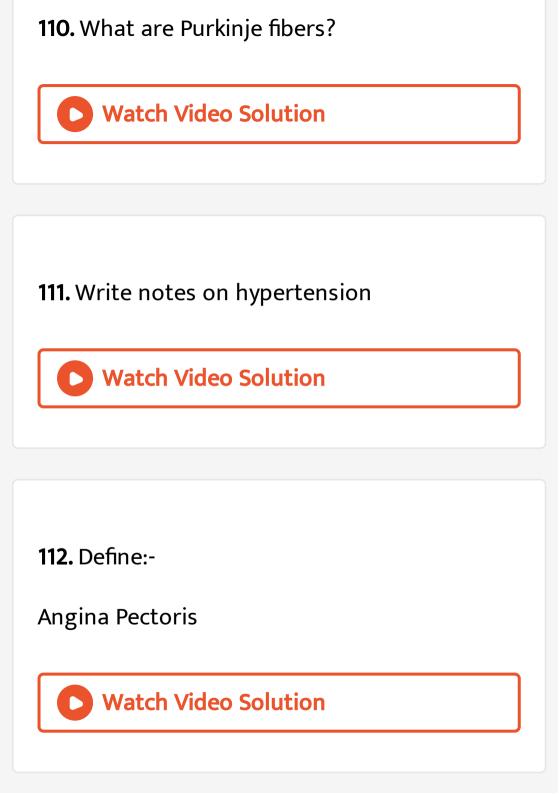


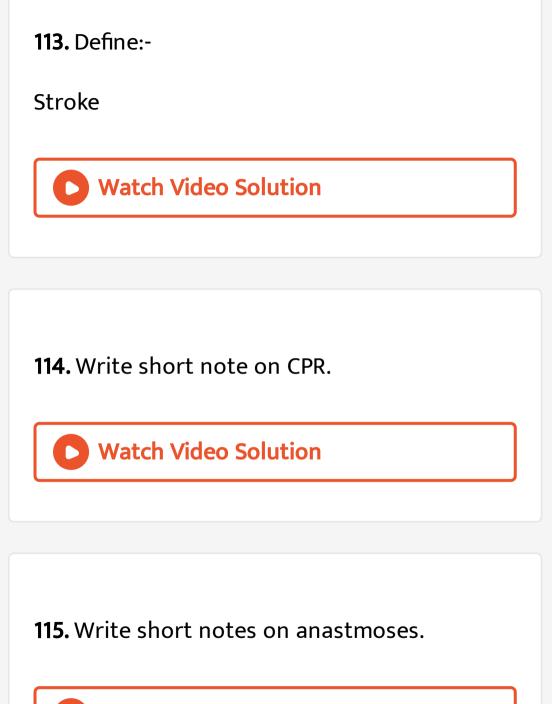




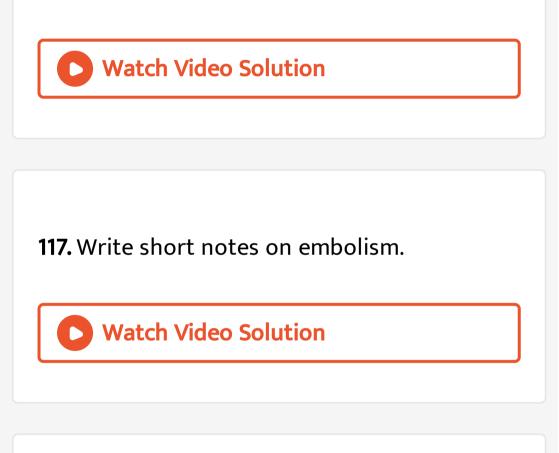






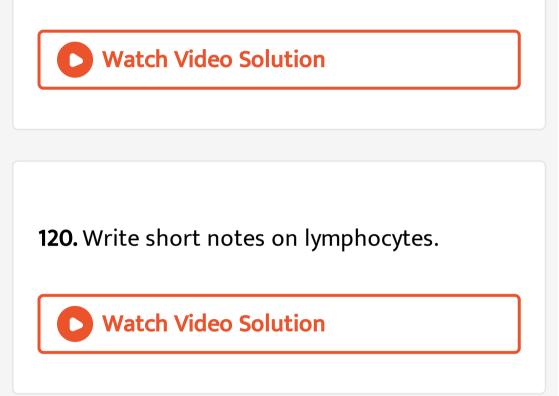


116. Write short notes on varicose veins.



118. Write short notes on Aneurysm:

119. Write short notes on basophils



121. Write short notes on Monocytes

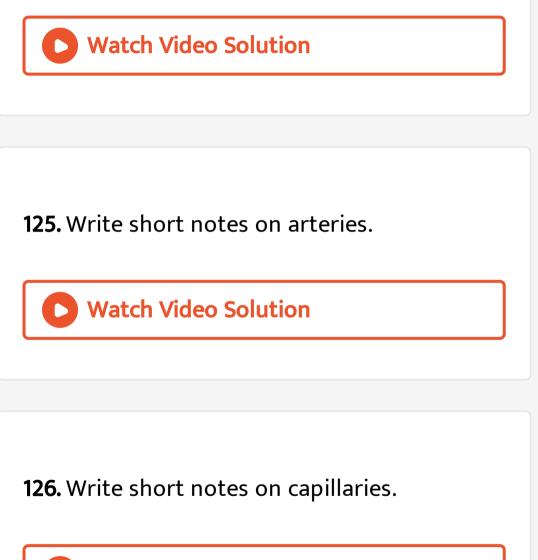
122. Erythroblastosis foetalis is a condition of

incompatibility related to



123. Explain the process of coagulation of blood.

124. What are Lymph nodes?



127. Write shot notes on veins.



128. Write a short note on coronary blood vessels.

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129. Explain the cardiac cycle.

130. Draw a standard ECG and explain the

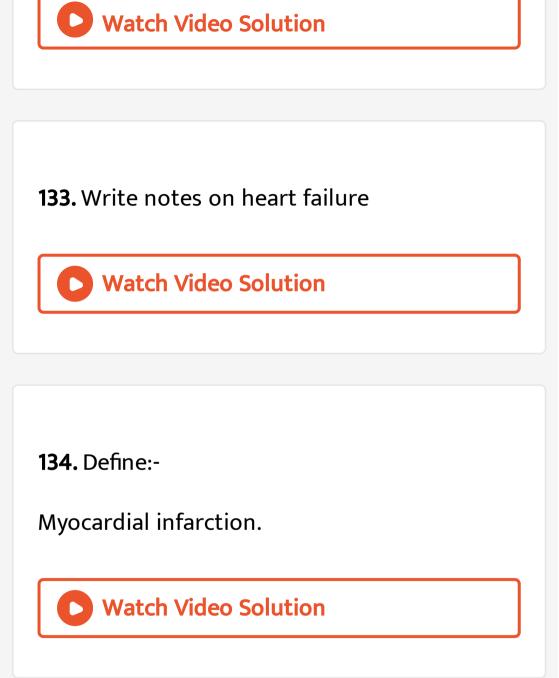
different segments in it.



131. Coronary heart disease is due to



132. Write notes on heart attack



135. Ramu was 15 years old when he went to a doctor to check his blood pressure. His pressure was around 158/98mmHg. The doctor advised him to measure his blood pressure at home for two weeks. He came to the doctor saying his average blood pressure was around 160/100mmHg. Doctor concludes that Ramu has high blood pressure or hypertension. If not controlled, hypertension can lead to heart failure, stroke and kidney failure. He returned to the doctor after two months after taking the drug, ACH inhibitor. This chemical blocks

the production of angiotensin II, a powerful vasoconstrictor, so his blood pressure returned back to normal.

 1. Why are people with high blood pressure at greater risk for having a hemorrhagic stroke?
 2. Without medication Ramu's blood pressure was around 160/100mmHg after two weeks.
 Why this pressure was referred to as hypertension by the doctor.

3. Blocking the action of vasoconstrictor lower the blood pressure? Give reasons.

4. What is the role of ACH inhibitor in reducing blood pressure?

5. What conditions one might expect if the

blood pressure is not controlled?



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blood pressure is not controlled?

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140. Explain the composition of blood.





141. Draw the diagram of structure of the

heart.

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142. Write short notes on stroke volume.





A. WBCs are absent

B. WBCs are present

C. Haemoglobin is absent

D. RBCs are absent

Answer:

2. A person having bothe antigen A and antigen B on the surface of RNCs belongs to blood group

A. A

B. B

C. AB

D. 0

Answer:



3. Erythro blastosis foetalis is due to the distruction of

A. Foetal RBCs

B. Foetus suffers from atherosclerosis

C. Foetal WBCs

D. Foetus suffers from minamata

Answer:

4. What is cardiac output?

A. HR-SV

B. HR x SV.

C. EDV-ESV

D. EDV x ESV

Answer:



5. Blood platelets are also called as _____.

- A. Thrombocytes
- B. Leucocytes
- C. Erythrocytes
- D. Lymphocytes

Answer:

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6. Distinguish between open and closed circulation.



7. Name and label the given diagram to show

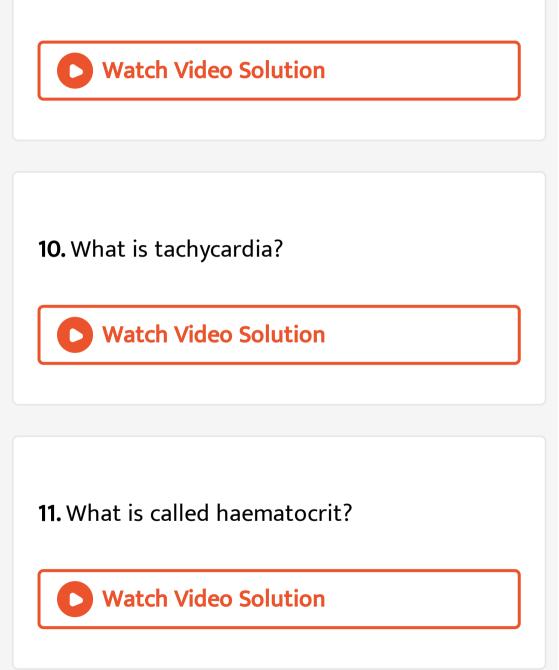
A,B,C,D,E,F and G



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8. Oxygen carrying capacity of blood is





12. Right ventricular wall is thinner than the

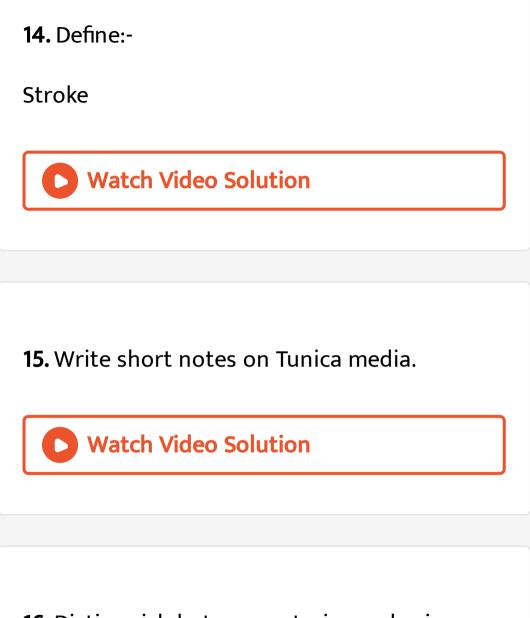
left ventricular wall. Why?

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13. Distinguish between mitral valve and semi

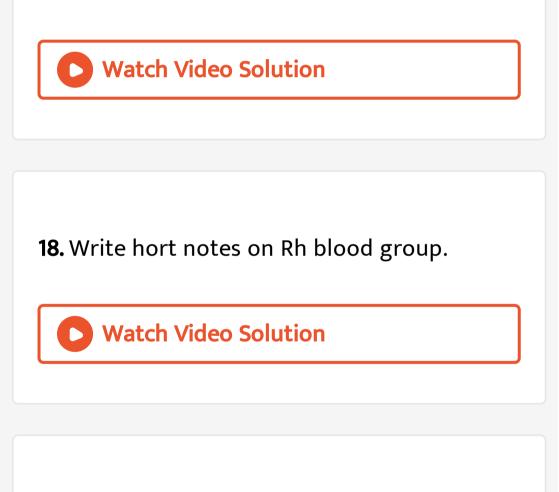
lunar valev.





16. Distinguish between arteries and veins.

17. Explain the composition of blood.



19. Erythroblastosis foetalis is a condition of incompatibility related to

Г



20. Lymph is colourless bebcause

A. WBCs are absent

B. WBCs are present

C. Haemoglobin is absent

D. RBCs are absent

Answer:

21. A person having bothe antigen A and antigen B on the surface of RNCs belongs to blood group

A. A

B. B

C. AB

D. 0

Answer:



22. Erythro blastosis foetalis is due to the distruction of

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B. Foetus suffers from atherosclerosis

C. Foetal WBCs

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Answer:

23. What is cardiac output?

A. HR-SV

B. HR x SV.

C. EDV-ESV

D. EDV x ESV

Answer:



24. Blood platelets are also called as _____

- A. Thrombocytes
- B. Leucocytes
- C. Erythrocytes
- D. Lymphocytes

Answer:

Watch Video Solution

25. Distinguish between open and closed

circulation.





26. Oxygen carrying capacity is high in RBCs.

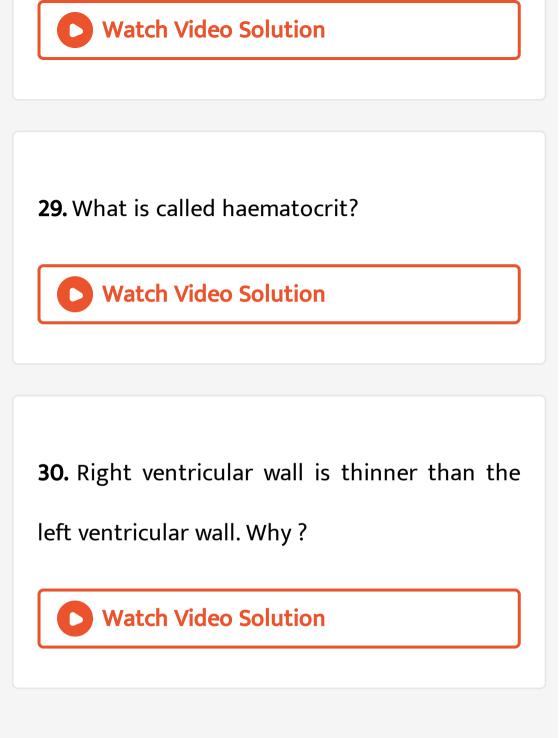
Why?



27. What is defribrillation?



28. What is tachycardia?



31. Distinguish between mitral valve and semi

lunar valev.

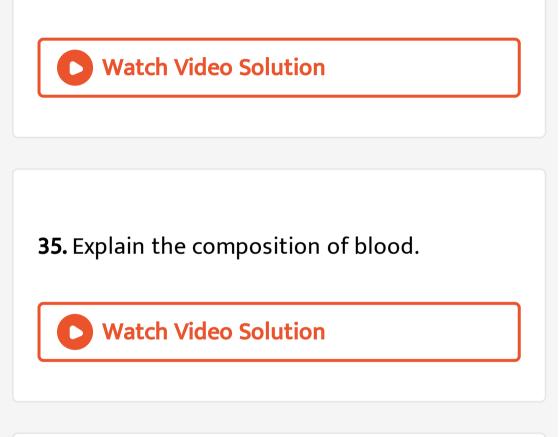
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32. What is Stroke?

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33. Write short notes on Tunica media.

34. Distinguish between arteries and veins.



36. Write hort notes on Rh blood group.

37. Erythro blastosis foetalis is due to the

distruction of



38. What is the function of lymph?

A. Transport of O_2 into brain

B. Transport of CO_2 into lungs

C. Bring ionterstitial fluid in blood

D. Bring RBC and WBC in lymph node

Answer:

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39. Which one of the following plasma proteins is involved in the coagulation of blood?

A. Globulin

B. Fibrinogen

C. Albumin

D. Serum amylase

Answer:



40. Which of the following WBCs are found in

more numbers?

A. Eosinophil

B. Neutrophil

C. Basophil

D. Monocyte

Answer:



41. Which of the following is not involved in

blood clotting?

A. Fibrin

B. Calcium

C. Platelets

D. Bilirubin

Answer:



42. Lymph is colourless bebcause

A. WBCs are absent

B. WBCs are present

C. Haemoglobin is absent

D. RBCs are absent

Answer:

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43. Blood group is due to the presence or absence of

A. Antigens on the surface of WBC

B. Antibiodies on the surface of RBC

C. Antigens of the surface of RBc

D. Antibidies on the surface of WBC

Answer:

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44. A person having bothe antigen A and antigen B on the surface of RNCs belongs to blood group

A. Antigens on the surface of WBC

C. AB

D. 0

Answer:



45. Erythro blastosis foetalis is due to the distruction of

A. Foetal RBCs

B. Foetus suffers from atherosclerosis

C. Foetal WBCs

D. Foetus suffers from minamata

Answer:



46. Dub sound of heart is caused by

A. Closure of atrio-ventricular valves

B. Opening of semi-lumar valves

C. Closure of semi-lunar valves

D. Opening of semi-lunar valves.

Answer:

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47. Why is the velocity of blood flow the lowest in the capillaries?

A. The systematic capillaries are supplied

by the left ventricle, which has a lower

cardiac output than the right ventricle

B. Capillaries are far from the heart and blood flow slows as distance from the heart increses. C. The totla surface area of the capillaries is larger than the total surface area of the arterioles. D. The capillary walls are not this enough

to allow oxygen to exchange with the

cells.



48. An unconscious patient is rushed into the emergency room and needs a fast blood transfusion. Because there is no time to check her medical history or determine her blood type, which type of blood should you as her doctor, give her ?

A. A-

B. AB

 $\mathsf{C}.\,O +$

D. *O* –

Answer:

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49. Which of these functions could or could not be carried out by a red blood cell?

A. Protein synthesis

B. Cell division

C. Lipid synthesis

D. Active transport

Answer:

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50. At the venous end of the capillary bed, the

osmotic pressure is

51. A patient's chart reveals that he has a cardiac output of 7500mL per minute and a stroke volume of 50 mL. What is his pulse rate? (in beats / min)

A. 50

B. 100

C. 150

D. 400

Answer:

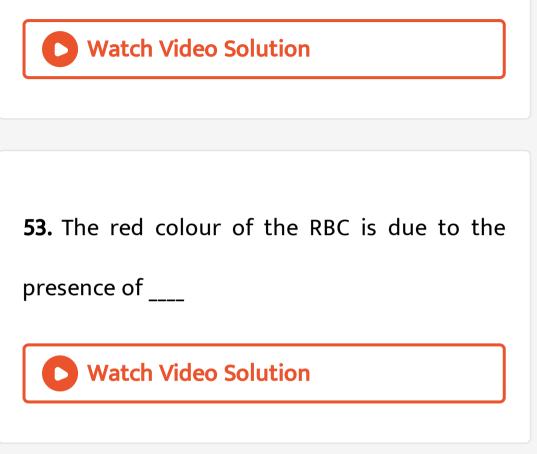


52. At any given time there is more blood in the venous system than that of the arterial system. Which of the following features of the veins allows this ?

A. Relative lack of smooth muscles

- B. Presence of valves
- C. Proximity of the veins of lymphatic's
- D. Thin endothelial lining





54. What is the life span of RBC in humans?

A. About 20 days

B. About 120 days

C. About 220 days

D. About 32 days

Answer:

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55. Why is spleen called as graveyard of RBC?

56. The antibody acting on agglutinogen B is

called_____

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57. The acting on agglutinogen B is called anti B.

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58._____ described the structure of heart

59. The structure of the hart was described in

the year

A. 1760

B. 1706

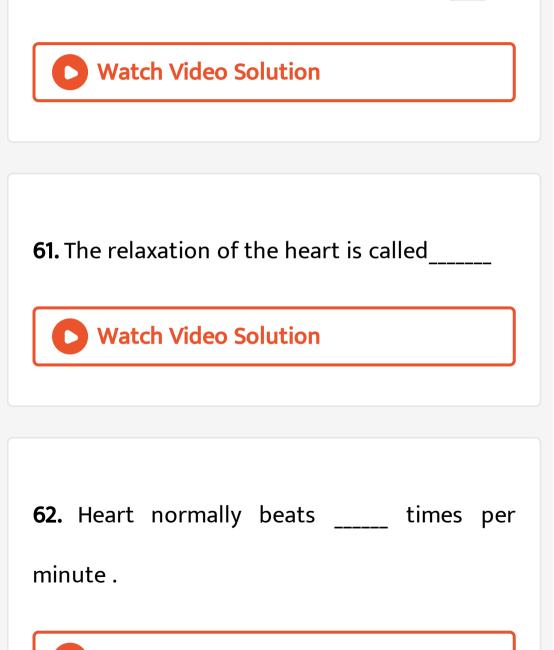
C. 1712

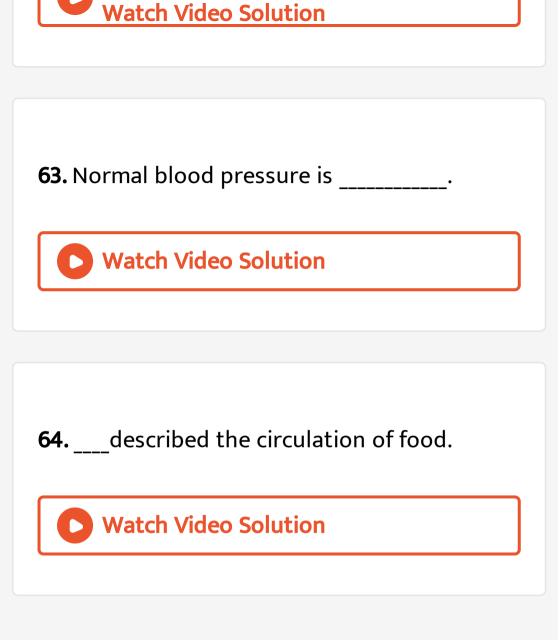
D. 1761

Answer:



60. The contraction of the heart is called____





65. The cirulation of blood was described in

the year

A. 1627

B. 1628

C. 1726

D. 1728

Answer:



67. Which one of the following types of cells lack nucleus?

A. RBC

B. Neutrophils

C. Eosinophils

D. Monocytes

Answer:



68. The cells involved in inflammatory reactions are

A. Basophils

- B. Neutrophils
- C. Eosinophils
- D. Lymphocytes





69. The name of pace maker is

A. SA node

B. AV node

C. Parasympathetic nervous system

D. None of the above

Answer:



70. Whch helps in blood clotting?

A. Sodium

B. Bilirubin

C. Fibrinogen

D. Potassium

Answer:

71. A person with antigen A in RBC and antibody b in plasma.

A. Belongs to blood group AB

B. Belongs to blood group B

C. Belongs to blood group O

D. Belongs to blood group A

Answer:

72. Formatin of blood corpusices is known as

A. Rouleaux

B. Haemopoiesis

C. Haemolysis

D. Phagocytosis

Answer:

73. Identify the correct sequence of regarding the origin and conduction of heart beat.

A. AV node \rightarrow SA node \rightarrow Purkinje fibre

B. SA node \rightarrow AV node \rightarrow Bundle of His

ightarrow Purkinje fibers

C. Purkinje fibre \rightarrow SA node \rightarrow AV node

D. Purkinje fibres \rightarrow AV node \rightarrow SA node

Answer:

74. Which one of the following statements is correct regarding blood pressure

A. 190/110 mm Hg may harm vbital organs

like brain and kidney

B. 130/90 mm Hg is considered high and

requires treatment.

C. $\frac{100}{55}$ mm Hg is considered an ideal

blood pressure.

D. $105\,/\,50$ mm Hg makes one very active





75. Which one of the following is correct?

- A. Plasma = Blood-Lymphocytes
- B. Serum=Blood+Fibrinogen
- C. Lymph=Plasma+RBC+WBC
- D. Blood= Plasma +RBC+WBC

Answer:



76. The diagram given here is the standard ECG of a normal person. The P wave represents the



A. Contraction of both the atria

B. Initation of the ventricular contraction

C. Beginning of the systole

D. End of systole



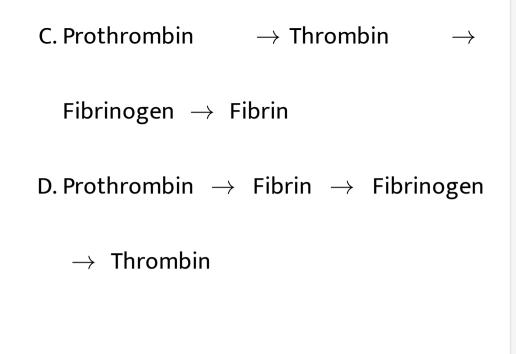
77. Arrange the following in the correct sequence.

A. Thrombin \rightarrow Prothrombin \rightarrow Fibrin

 \rightarrow Fibrinogen

B. Fibrinogen \rightarrow Protherombin \rightarrow

Thrombin \rightarrow Fibrin



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78. CPR was first discovered by

A. Jams Elam and Peter Safar

- B. Karl Landsteiner
- C. William Harvey
- D. William Einthoven

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79. Irregular hear beat is called

A. Tachycardia

B. Bradycarida

C. Arrhythmia

D. Myopcardia

Answer:



80. Select, among the following a cell which

does not exhibit phagocytic activity,\

A. Monocytes

B. Neutrophil

C. Basophil

D. Macrophage

Answer:



81. Select, the pair of substances among the

following which is essential for coagulation of blood.

A. Heparin and calcium ions

B. Calcum ions and platelet factors

C. Oxalates and citrates.

D. Platelet factors and heparin

Answer:

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82. Identify the lymphocyte

A. MOnocytes

B. B-cells

C. Eosinophils

D. Basophils

Answer:



83. The largest corpuscle in the blood is

A. Basophils

B. Acidophils

C. Monocytes

D.	Lymp	hocytes
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84. Blood plasma without the clotting factors

is____



85. Plasma protein involves in osmotic balance

- A. Prothrombin
- B. Albumin
- C. Fibrinogen
- D. Globulin

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86. QRS wave in ECG represnts

A. Atrial depolarization

B. AV node delay

C. Ventricular ejection

D. Ventricular depolarization

Answer:

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87. Which one of the following blood cells is

involved in antibody production?

A. B-cell

B. T-cell

C. RBCs

D. Neutophils

Answer:

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88. Which the the following statement is incorrect?

A. A peerson of O blood group has anti 'A' and anti 'B' antibod8ies in his blood plasma B.A person of B blood group cannnot blood to a person of A blood group C. Blood group is designated on the basis of the presence of antibodies in the blood plasma D. A person of AB blood group is universal

recipient



89. Read the following statements and choose the correct option
Statement 1: Atria receive blood from all parts of the body which subsequently flows to ventricles
Statement2: Action potential generated at sinoatrial node passes from atria to ventricles.

A. Action mentioned in statement 1 is dependent on action mentioned in statement 2 B. Action mentioned in statement 2 is dependent on acion mentioned in statement1 C. Actions mentioned in statement 1 and 2 are independednt of each other. D. Actions mentioned in statements 1 and 2

are synchronous





90. Example of an anticoagulant is

A. Prothrombin

B. Thrombin

C. Heparin

D. Fibrinogen

Answer:



- 91. Tunica adventitia is the another name of
 - A. Tunica interna
 - B. Tunica media
 - C. Tunica externa
 - D. Endothelium



92. The walls of the right ventricle are thicker than the right auricles .

A. Cardiac muscles

B. Papillary muscles

C. Myocardium

D. Endocardium

Answer:

93. The irregular muscular ridges in the ventricular walls are

A. Trabeculae carnease

B. Chordae tendineae

C. Mitral valve

D. Semilunar valve

Answer:

94. Cardiac output represents

A. HR-SV

B. HRXXSV

C. EDV-ESV

D. EDVXXESV

Answer:

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95. P wave represents

- A. AV node delay
- B. Ventricular repolarization
- C. Ventricular depolarization
- D. Atrial depolarization

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96. ST segment of ECG lies between

A. PQ interval and QRS complex

B. QRS complex and T wave

C. P wave and T wave

D. QRS complex of P wave

Answer:

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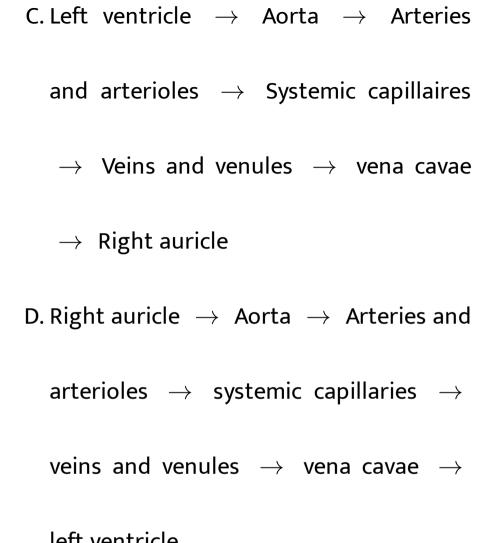
97. Which one of the following is correct regarding pulmonary circulation?

A. Left auricle ightarrow Arterioles ightarrowPulmonary artery \rightarrow Lung capillaries ightarrow pulmonary veins ightarrow venules ightarrow**Right ventricle.** B. Right ventricle ightarrow pulmonary veins ightarrowvenuls \rightarrow Lung capillaries \rightarrow Venules \rightarrow Pulmonary veins \rightarrow Left auricles C. Right ventricles \rightarrow pulmonary veins ightarrow venules ightarrow Lung capillaries ightarrow

Arterioles $ ightarrow$ pulmonary artery	\rightarrow
Left auricles	
D. Left auricle $ ightarrow$ lung capillaries	\rightarrow
Venules $ ightarrow$ Pulmonary veins	\rightarrow
arterioles $ ightarrow$ Pulomnary artery	\rightarrow
Right ventricle.	

98. Which one of the following is correct regarding systemic circulation?

A. Left auricle \rightarrow Vena cavae veins and venules ightarrow systemic capillaries ightarrowArteris and arterioles \rightarrow Right auricle. B. Right auricle \rightarrow Vena cavae \rightarrow Veins and venules \rightarrow systemic capillaries ightarrow Arteries and arterioles ightarrow Aorta \rightarrow Left ventricles



left ventricle.

Answer:

99. ESV stands for

A. End stretch volume

B. Expanded stretch volume

C. Expanded systolic volume

D. End systolic volume

Answer:

A. Closure the the AV valves

B. Closure of the semilunar valves

C. Opening of the AV valves

D. Opening of the semilunar valves

Answer:

A. Closre of the AV valves

B. Closure of the AV and semilunar valves

C. Opening of the AV valves

D. Opening of the AV and semilunar valves

Answer:

102. Which of the following are AV valves?

(i) Bicuspid valve

(ii) Tricuspid valve

(iii) Semilunar valve

(iv) Aortic valve

A. Both (i) and (iii)

B. Both (i) and (ii)

C. Both (iii)and (iv)

D. both (ii) and (iii)

Answer:





103. Which one of the following is semilunar

valves?

A. Pulmonary valve

B. Mitral valve

C. Biscupid valve

D. Tricuspid valve

Answer:

104. Which one the following is left AV valve?

A. Tricuspid valve

B. Semilunar valve

C. Pulmonary valve

D. Biscupid valve

Answer:

105. Which one of the following is right AV valve?

A. Tricuspid valve

B. Semilunar valve

C. Pulmonary valve

D. Biscupid valve

Answer:

106. ECG depicts the depolarisation and repolarisation processes during the cardiac cycle. In the ECG of a normal healthy individual one of the following waves is not represented.

A. Depolarisation of atria

B. Repolarisation of atria

C. Depolarisation of ventricles

D. Repolarisation of ventricles

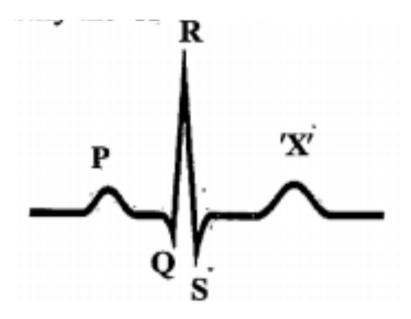
Answer:





107. Given below is the diagrammatic representation of a standard ECG Identify the





A. QRS-complex

B. P wave

C. T wave

D. ST segment

Answer:



108. Capillaries are the

A. Lympth vessels

B. Smalle blood vessels

C. Veins

D. Large blood vessels

Answer:

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109. Veins bring blood from various parats of body to

A. Kidney

B. Liver

C. Heart

D. Lungs

Answer:

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110. The blood vessels that carry blood away from the heart are called.....

A. Coronary arteries

B. Coronary veins

C. Aorta

D. Superior vena cava

Answer:

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111. Which of the folloing is true about ventricles?

A. They are present below the auricles

B. The walls are thicker than auricle

C. Right ventricles is larger then the left

ventricle

D. All the above

Answer:

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112. Blood platelets are also called as _____.

A. Thrombocytes

B. Leucocytes

C. Erythrocytes

D. Lymphocytes

Answer:



113. The number of red blood cells in man per

 mm^{-3} blood

A. 5-5.5 millions

B. 2.5-3.5 millions

C. 1.5-2 millions

D. 4.5-5.0 million

Answer:



114. Which of the following are tranported by

plasma?

A. Urea, amino acids

B. Hormones, ions

C. Fats, vitamins

D. All the above

Answer:

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115. Human heart is _____ in nature .

A. Neurogenic

B. Myogenic

C. Digenic

D. Monogenic

Answer:

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116. An instrument used to hear the heart sounds

A. ECG

B. Stethoscope

C. EEG

D. Sphygmomanometer

Answer:

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117. In human being the duration of cardiac cycle is

A. 0.008 sec

B. 0.5 sec

C. 0.8 sec

D. 8 sec

Answer:

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118. Explain the cardiac cycle.

A. The contraction of the atria

B. Circulation of the blood in the heart

C. Contraction and relaxation of the

ventricles

D. Events that takes place in one heart

beat.

Answer:



119. Bundle of His is found in

A. heart

B. Auricle

C. Ventricle

D. Sinus Venosus

Answer:

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120. Formation of erythrocytes is known as

A. Haemolysis

- B. Haemopoietin
- C. Haemopoiesis
- D. Haemorrhage

Answer:



A. Heart

B. Lungs

C. Intesting

D. Liver





122. Hepatic artery brings oxygenated blood from

A. Heart

B. Lungs

C. Intestine

D. Liver





123. Which is note white blood cells?

A. Leucocyte

- B. Granulocyte
- C. Trombocyte
- D. Monocyte





124. The blood group which is not containing

any antigen

A. A

B. AB

С. В

D. 0

Answer:





125. Valves are present in

A. Artery and veins

B. Artery and lymph vessels

C. Veins and lymph vessels

D. Artery and capillaries

Answer:

126. Identify the animal having open circulatory system

A. Cephalopods

B. Cockroach

C. Annelids

D. Vertibrate

Answer: