



BIOLOGY

BOOKS - LAKHMIR SINGH & MANJIT KAUR

TRANSPORT IN ANIMAL AND PLANTS

Exercise

1. What is the function of platelets in the blood?



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2. What is the liquid part of the blood called?

A. Blood plasma

B. RBC

C. WBC

D. Platelets

Answer: A



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3. Which blood cells fight against the germs that may enter our body?

- A. White blood cells
- B. Red blood cells
- C. Platelets
- D. None of the above

Answer: A



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4. Which blood cells carry oxygen in the body?

A. Platelets

B. White blood cells

C. Plasma

D. Red blood cells

Answer: D



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5. What substance in these cells actually carries oxygen?

A. RBC

B. WBC

C. Haemoglobin

D. none

Answer: C



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6. Name the red pigment which carries oxygen in blood.

- A. Red blood cells
- B. Haemoglobin
- C. White blood cells
- D. Platelets

Answer: B



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7. What is the function of red blood cells?



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8. Which blood cells help in the clotting of blood?



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9. Which part of the blood carries digested food?

A. Red blood cells

B. White blood cells

C. Platelets

D. Plasma

Answer: D



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10. What is the function of haemoglobin present in the red blood cells ?



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11. Name one useful substance transported by blood.



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12. Name one waste product transported by blood.



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13. Write the full form of

RBC



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14. Write the full form of

WBC.



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15. Name the organ which pumps blood in the human body.

A. Heart

B. Lungs

C. Kidney

D. None of the above

Answer: A



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16. What do the greenish-blue lines just below our skin on hands and legs represent ?



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17. Which of the two lie deeper under the skin : arteries or veins ?



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18. What is the name of blood vessels which connect the arteries to veins?



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19. Veins and arteries carry blood. Which of these carry blood :
away from the heart?



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20. Veins and arteries carry blood. Which of these carry blood:

(a) away from the heart ?

(b) back to the heart?



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21. Which side of the heart (left or right) has :
carbon dioxide rich blood?



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22. Which side of the heart contains
oxygenated (pure) blood ?



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23. Which side of the heart (left or right) :
pumps blood into the lungs?



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24. Which side of the heart (left or right) :
pumps blood into the body organs (except
lungs)?



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25. Name the organ of the body from which blood freshly enriched with oxygen goes into the heart .



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26. If the pulse rate of an athlete is 95 per minute , what is the number of his heartbeats in the same time?



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27. Which of the two is used for feeling the pulse : artery or vein?



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28. Name any two animals which do not have blood (or circulatory system).



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29. Where is the dirty blood in our body filtered ?



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30. Name the waste product excreted :
by the lungs.



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31. Name the waste product excreted :
by the kidneys.



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32. Name the organs which remove the
following waste products from our body :
Carbon dioxide



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33. Name the organs which remove the following waste products from our body :

Urea



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34. What job is done by the kidneys ?



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35. What is the percentage composition of urine ?



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36. Name the process by which the blood of a person having kidney failure is cleaned by using a kidney machine .



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37. Name the tissue in a plant which carries :
water and minerals from roots to the leaves .



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38. Name the tissue in a plant which carries :
food from the leaves to the other parts of the
plant.



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39. Fill in the following blanks with suitable words :

Haemoglobin is present in blood cells.



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40. Fill in the following blanks with suitable words :

Arteries and veins are joined by a network of





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41. Fill in the following blanks with suitable words :

Artia and ventricles are the chambers of the
.....



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42. Fill in the following blanks with suitable words :

Our heart has chambers .



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43. Fill in the following blanks with suitable words :

Circulation of blood was discovered by

.....



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44. Fill in the following blanks with suitable words :

The rhythmic contraction and relaxation of the heart is called



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45. Fill in the following blanks with suitable words :

The main excretory product in human beings is



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46. Fill in the following blanks with suitable words :

The tubes which connect kidneys to bladder are called



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47. Fill in the following blanks with suitable words :

The tube which carries urine from the bladder to outside of the body is called





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48. Fill in the following blanks with suitable words :

The kidneys contain thousand of tiny filters called



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49. Fill in the following blanks with suitable words :

Excretion involves removing of those waters

which are produced in the of the living organism.



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50. Fill in the following blanks with suitable words :

Waters and minerls are absorbed by from the soil .



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51. Fill in the following blanks with suitable words :

Water absorbed by root hair from soil particles moves from cell to cell till it reaches the vessel in the centre of root.



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52. Fill in the following blanks with suitable words :

The vascular tissue for the transport of water and minerals in the plants is called



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53. Fill in the following blanks with suitable words :

The vascular tissue for the transport of food in plant is called



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54. Water reaches great heights in the trees because of suction pull caused by _____.



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55. (a) Why is transport of materials necessary in an organism (plant or animals) ?

(b) What is the need of special tissues or organs for transport of substances in plants and animals ?

(c) How are water and minerals transported in

plants ?

(d) How is food transported in plants ?



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56. What is blood? Name all the components of blood. What makes the blood look red ?



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57. Why is blood needed by all the parts of a body?



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58. What will happen if there are no platelets in the blood?



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59. State the functions of blood



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60. What is heart? Describe the function of heart .



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61. How many chambers are there in the heart?



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62. Name the upper chambers of the heart .



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63. Name the lower chambers of the heart.



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64. How many types of blood vessels are there? Name them.



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65. Define

arteries



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66. Define

veins



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67. Define

capillaries



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68. How do food and oxygen reach all the parts of our body ?



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69. What is heartbeat? Name the instrument used by the doctors to listen to our heartbeats .



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70. What is the average number of heartbeats per minute of an adult person while resting? Explain why, the heart beats faster during and after an exercise .



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71. What is stethoscope ? Name its various parts .



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72. What is pulse? Name one place in our body where you can the feel pulse . What is the pulse rate of an adult person while resting ?



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73. How can you feel your own pulse? Which of the two has a higher pulse rate : a small boy or an adult person ?



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74. Which of the following animals do not have blood circulatory system?

Dog, Hydra, Fish, Birds, Deer, Sponges, Amoeba, Tiger, Paramecium, Cow



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75. How are food, oxygen, carbon dioxide and other waste materials transported in animals such as sponges and Hydra?



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76. Match the structures given in column I with functions given in column II :

<i>Column I</i>	<i>Column II</i>
(i) Stomata	(a) Absorption of water
(ii) Xylem	(b) Transpiration
(iii) Root hair	(c) Transport of food
(iv) Phloem	(d) Transport of water
	(e) Synthesis of carbohydrates



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77. What is 'dialysis'? What type of patients are put on dialysis machine ?



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78. What happens when the kidneys of a person stop working due to infection or injury ?



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79. How can a person having kidney failure survive?



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80. What does the sweat (pasina) contain?
What are the functions performed by sweating in human beings?



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81. Explain why, some white patches are formed on our clothes during summer, especially in areas like underarms.



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82. How do the aquatic animals like fish excrete their cell waste ?



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83. How do the land animals like birds, lizards, snakes, and insects excrete their cell waste?



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84. What is a tissue?



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85. What are vascular tissues? Name the two types of vascular tissues present in plants.



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86. What are xylem and phloem? State the functions of xylem and phloem in plants .



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87. Name the process which causes water to be pulled upwards through xylem vessels from the roots to the leaves. How do the movement

of water in a plant differ from the movement of food in it?



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88. Does transpiration serve any useful function in the plants? Explain.



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89. What are stomata? Give two functions of stomata.



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90. How do water and minerals move from the roots of a plant to the leaves?



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91. How does the food move from the leaves to all other parts of a plant?



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92. State the function of circulatory system.
Name the various parts of the human circulatory system. Draw a labelled diagram of the human circulatory system.



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93. What is meant by "excretion" ? What are the various waste materials excreted from the human body? Why is it necessary to excrete waste products?



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94. What are the various organs of the human excretory system? Draw a diagram of the human excretory system and label the various parts.



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95. Why do plants need a transport system? Name the two types of vessels (or

tissues) which constitute the transport system in plants .



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96. Explain how, water moves from the soil particles to the xylem vessels in the centre of the root.



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97. The cells in our blood which destroy disease-causing germs, are:

A. platelets

B. red blood cells

C. white blood cells

D. skin cells

Answer: C



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98. A blood vessel which carries blood back to the heart is :

A. artery

B. vein

C. capillary

D. platelet

Answer: B



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99. The wave of expansion of an artery when blood is forced into it is called

A. flow

B. heartbeat

C. pulse

D. ticking

Answer: C



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100. In plants, water is transported through

A. xylem

B. phloem

C. stomata

D. root hair

Answer: A



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101. Water absorption through roots can be increased by keeping the potted plants

A. in the shade

B. in dim light

C. under the fan

D. covered with a polythene bag

Answer: C



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102. The component of blood which makes chemicals known as antibodies is :

A. platelets

B. white blood cells

C. red blood cells

D. plasma

Answer: B



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103. If a patient is put on dialysis, he is most likely suffering from a severe ailment of the

A. circulatory system

B. respiratory system

C. excretory system

D. digestive system

Answer: C



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104. Blood is pumped from the heart to the entire body by the:

A. lungs

B. ventricles

C. atria

D. nerves

Answer: B



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105. The blood leaving the tissues becomes richer in

A. carbon dioxide

B. water

C. haemoglobin

D. oxygen

Answer: A



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106. What prevents backflow of blood inside the heart during contraction?

A. thick muscular walls of ventricles

B. valves

C. thin walls of atria

D. all of the above

Answer: B



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107. Which vein brings clean blood from the lungs into the heart ?

A. renal vein

B. pulmonary vein

C. ven cava

D. hepatic vein

Answer: B



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108. Which blood vessel does not carry any carbon dioxide ?

A. pulmonary artery

B. vena cava

C. hepatic vein

D. pulmonary vein

Answer: D



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109. The phloem tissue in plants is responsible for the transport of :

A. water

B. water and minerals

C. glucose

D. all of the above

Answer: C



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110. In which of the following are the largest amount of nitrogen excreted from a mammalian body ?

A. breath

B. sweat

C. faeces

D. urine

Answer: D



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111. Coagulation of blood in a cut or wound is brought about by :

A. plasma

B. platelets

C. white blood cells

D. red blood cells

Answer: B



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112. The blood vessel which carries oxygenated blood from the lungs to the heart is :

- A. main artery
- B. pulmonary artery
- C. main vein
- D. pulmonary vein

Answer: D



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113. The filtering unit in the human excretory system is called:

A. nephron

B. neuron

C. nephridia

D. kidneyon

Answer: A



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114. The procedure of cleaning the blood of a person by using a kidney machine is known as :

A. ketolysis

B. hydrolysis

C. dialysis

D. photolysis

Answer: C



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115. Which of the following helps in the upward movement of water and dissolved minerals from the roots to the leaves through the stem ?

- A. transportation
- B. translocation
- C. tropic movement
- D. transpiration

Answer: D



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116. The exchange of material between the blood and surrounding cells takes place through :

A. arteries

B. veins

C. lungs

D. capillaries

Answer: D



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117. Arteries normally carry oxygen rich blood whereas veins normally carry carbon dioxide rich blood.

Name one artery which carries carbon dioxide rich blood.



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118. Arteries normally carry oxygen rich blood whereas veins normally carry carbon dioxide

rich blood.

Name one vein which carries oxygen rich blood.



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119. If a person drinks very less water during the day, the quantity of urine passed by him decreases. Which important body waste will not be flushed out properly under these condition?



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120. Name an animal which excretes cell waste in gaseous form (ammonia) which directly dissolves in water.



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121. Name the animals which excrete a semi-solid white coloured compound uric acid.

A. Birds

B. Lizard

C. Snakes

D. All of the above

Answer: D



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122. The human body has an organ A which acts as a pump. The pump A pumps a liquid B into the whole body continuously. The liquid B supplies the useful substances C and D to all the body cells and removes a waste E from the

body cells.

What are organ A ?



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123. The human body has an organ A which acts as a pump. The pump A pumps a liquid B into the whole body continuously. The liquid B supplies the useful substances C and D to all the body cells and removes a waste E from the body cells.

What are liquid B?



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124. The human body has an organ A which acts as a pump. The pump A pumps a liquid B into the whole body continuously. The liquid B supplies the useful substances C and D to all the body cells and removes a waste E from the body cells.

What is the colour of liquid B?



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125. The human body has an organ A which acts as a pump. The pump A pumps a liquid B into the whole body continuously. The liquid B supplies the useful substances C and D to all the body cells and removes a waste E from the body cells.

Name the useful substances C.



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126. The human body has an organ A which acts as a pump. The pump A pumps a liquid B into the whole body continuously. The liquid B supplies the useful substances C and D to all the body cells and removes a waste E from the body cells.

Name the useful substances D.



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127. The human body has an organ A which acts as a pump. The pump A pumps a liquid B into the whole body continuously. The liquid B supplies the useful substances C and D to all the body cells and removes a waste E from the body cells.

What is the waste E?

A. Nitrogen

B. Oxygen

C. Carbon dioxide

D. None of these

Answer: C



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128. There is a pair of bean-shaped organs P in the human body towards the back, just above the waist. A waste product Q formed by the decomposition of unused proteins in the liver is brought into organs P through blood. The numerous tiny filters R present inside the

organs P clean the dirty blood by removing the waste product Q. If due to some reason, the organs P of a person stop functioning completely, the person's blood can be cleaned periodically by a process S as to save his life.

What are P, Q, R and S?



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