



BIOLOGY

BOOKS - SRS PUBLICATION

RESPIRATION AND CIRCULATION

Question Bank

1. Fill in the Blank.

Respiration is the process essential for....of
living things



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2. Fill in the Blank.

Inhaled air has....oxygen andcarbon di oxide



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3. Fill in the Blank.

....can breathe both with lungs and skin.



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4. Fill in the Blank.

The latest respiratory disorder is.....



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5. Choose the correct Answer

Colour of Haemoglobin is

A. Colourless

B. Blue

C. Red

D. Green

Answer: C



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6. Choose the correct Answer

Lime water turns milky when it reacts with

A. Oxygen

B. Nitrogen

C. Carbon

D. Carbon dioxide

Answer: D



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7. Choose the correct Answer

The part of respiratory system which branches into

A. Nasal cavity

B. Broccoli

C. Lungs

D. Trachea

Answer: C



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8. Choose the correct Answer

Human normally breathe....times per minute.

A. 14 to 20

B. 20 to 30

C. 72

D. Upto 80

Answer: A



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9. Matching

A) Gills	(4)	1. Earthworm
B) Trachea	(5)	2. Whale
C) Lungs	(2)	3. Stem
D) Skin	(1)	4. Fish
E) Stomata	(6)	5. Cockroach
F) Lenticels	(3)	6. Leaf
		7. Flower



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10. What is respiration ?



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11. Name the types of respirations.



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12. What is the difference between inhaled and exhaled air ?





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13. Answer the following question

Explain in detail the pathway of respiration in humans with the help of a flow chart ? (Or)

Draw the flow chart showing pathway of respiration in humans. (Or) Depict the process of respiration in a flow chart.



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14. Collect the information about different respiratory organs in different animals.



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15. What will happen if diaphragm is not there in the body?



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16. Answer the following question

Write a note on the lab activity done in your school to prove that carbon dioxide is released during exhalation. (or) How can you prove that carbondioxide is released during respiration ?



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17. Answer the following question

Prepare slogans to create awareness about

Evil effects of smoking . Write relevant slogans to bring awareness in the society.



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18. Answer the following question

Prepare slogans to create awareness about COVID-19 prevention .Write relevant slogans to bring awareness in the society.



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19. Answer the following question

Make use of the Stethoscope made by you to measure the number of heart beats of five of your friends and note down your findings in the table given.

Sl. No.	Name	Normal heart beat	After walking 100 m.	After climbing stairs	While relaxing
1.	Kiran	72	90	86	62
2.	Syam	72	94	90	68
3.	Teja	72	92	87	65
4.	Arun	72	88	85	67
5.	Sravan	72	85	81	63



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20. ONE WORD ANSWER QUESTION

Name the colouring pigment in RBC.



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21. ONE WORD ANSWER QUESTION

Name the three types of blood vessels.



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22. ONE WORD ANSWER QUESTION

What is the name given to respiration through skin ?



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23. ONE WORD ANSWER QUESTION

Who discovered oxygen gas ?



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24. ONE WORD ANSWER QUESTION

How many times we breathe in a minute normally ?



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25. ONE WORD ANSWER QUESTION

Write the COVID Protocol.



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26. ONE WORD ANSWER QUESTION

Name the three types of blood vessels.



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27. ONE WORD ANSWER QUESTION

Name the parts of circulatory system.



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28. ONE WORD ANSWER QUESTION

Name the two main types of respiration.



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29. ONE WORD ANSWER QUESTION

Name the scientists who discovered
carbondioxide



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30. ONE WORD ANSWER QUESTION

What is respiratory rate ?



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31. ONE WORD ANSWER QUESTION

Expand SARS



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32. ONE WORD ANSWER QUESTION

What is human blood composed of ?



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33. ONE WORD ANSWER QUESTION

What is respiration through lungs called ?



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34. ONE WORD ANSWER QUESTION

Write the word equation for respiration.



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35. ONE WORD ANSWER QUESTION

Which gas turns lime water milky white ?



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36. What is breathing?



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37. YES/NO QUESTION

Heart beat can be felt and measured by an instrument called Stethoscope.



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38. YES/NO QUESTION

The process of breathing takes place through lenticels in stem.





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39. YES/NO QUESTION

Frog can breathe through lungs and skin.



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40. YES/NO QUESTION

The quantity of oxygen is more in inhaled air than in exhaled air.



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41. YES/NO QUESTION

Lungs are pink in colour spongy, elastic and sac like structures.



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42. YES/NO QUESTION

Heart has six chambers called Atria and Ventricles



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43. YES/NO QUESTION

Human beings can absorb the dissolved oxygen from water



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44. YES/NO QUESTION

Smoking is not harmful to health



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45. YES/NO QUESTION

Breathing involves the movement of lungs and blood



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46. YES/NO QUESTION

We breathe about 25-30 times per minute.



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47. SEQUENCE

? → Diaphragm moves → Backwards.



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48. SEQUENCE

Wind pipe → Bronchi → ?



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49. SEQUENCE

Lime water \rightarrow ? \rightarrow Milky white.



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50. SEQUENCE

Inhalation \rightarrow diaphragm moves \rightarrow ?



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51. SEQUENCE

Nostrils 'rarr' ? → Pharynx



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52. SEQUENCE

? Glucose + ? → CO_2 + Water + Energy



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53. SEQUENCE

? → Mask → Social distance



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54. MULTIPLE CHOICE QUESTION

Frame a relevant question on respiration in different organisms with different organs. ()

A. What are the different respiratory organs in organisms ?

B. What is the reason behind the development of different respiratory organs in different animals ?

C. Where do we find respiratory organs in all the organisms ?

D. Why do organisms have many respiratory organs for respiration ?

Answer: B



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55. MULTIPLE CHOICE QUESTION

It is trachea for cockroach. Then what is it for birds ? ()

A. gills

B. skin

C. lungs

D. trachea

Answer: C



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56. MULTIPLE CHOICE QUESTION

Both plants and animals use.... ()

A. Oxygen

B. Nitrogen

C. Carbon dioxide

D. Helium

Answer: A



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57. MULTIPLE CHOICE QUESTION

Choose the odd one out. ()

A. Heart

B. Blood vessels

C. Lungs

D. Blood

Answer: C



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58. MULTIPLE CHOICE QUESTION

Upper chambers : Atria : Lower chambers : ()

A. WBC

B. Ventricles

C. RBC

D. Blood platelets

Answer: B



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59. MULTIPLE CHOICE QUESTION

Choose the odd one out. ()

A. RBC

B. WBC

C. Blood capillaries

D. Blood platelets

Answer: C



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60. MULTIPLE CHOICE QUESTION

Choose the wrong statement. ()

- A. RBC have a colouring pigment called haemoglobin
- B. WBC boosts our immunity
- C. Heart is the fluid portion of blood
- D. Blood platelets help in coagulation of blood

Answer: C



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61. MULTIPLE CHOICE QUESTION

What is the function of arteries ? ()

- A. carry blood from body parts to heart
- B. carry blood from heart to body parts
- C. Both A and B
- D. carry blood from kidney to liver

Answer: B



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62. MULTIPLE CHOICE QUESTION

Choose the correct statement regarding the activity of sprouting seeds. ()

- A. Lime water changes to milky white
- B. Apply vaseline on the edges of the bottle
to make it air tight
- C. Place sprouted seeds in the glass bottle
- D. All of these

Answer: D



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63. MULTIPLE CHOICE QUESTION

After doing exercise our respiratory rate may be more than.....breaths per minute.()

A. 40

B. 70

C. 25

D. 100

Answer: C



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64. MULTIPLE CHOICE QUESTION

Read the paragraph and answer the question.

Earthworms breathe through their skin. It is thin and moist with minute holes. Through the skin, air passes in and out.

What is essential for earthworm to breathe oxygen through skin continuously ? ()

A. Skin is always in moist state

B. Skin has tiny holes

C. Lungs are essential

D. A and B

Answer: D



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65. MULTIPLE CHOICE QUESTION

....and lenticels help in exchange of gases in plants. ()

A. Skin

B. Gills

C. Trachea

D. Stomata

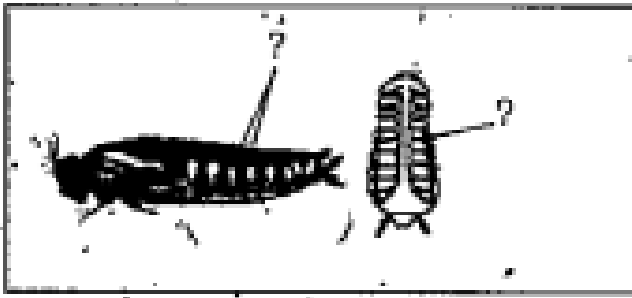
Answer: D



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66. MULTIPLE CHOICE QUESTION

Name the part marked with '?' ()



A. spiracle

B. trachea

C. gills

D. flaps

Answer: A



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67. The respiratory organs of fish

A. spiracle

B. trachea

C. gills

D. flaps

Answer: C



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68. MULTIPLE CHOICE QUESTION

Blood cells	Function
1) RBC	transfers blood from heart to lungs
2) WBC	protects us from harmful micro-organisms
3) Blood platelets	coagulation of blood

Which blood cells have colouring pigment ?

A. RBC

B. WBC

C. Platelets

D. Both B and C

Answer: A



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69. MULTIPLE CHOICE QUESTION

Blood cells	Function
1) RBC	transfers blood from heart to lungs
2) WBC	protects us from harmful micro-organisms
3) Blood platelets	coagulation of blood

What happens if blood platelets are not there in our blood ?

- A. Blood cannot be transferred to all parts
- B. We cannot fight against harmful micro organisms
- C. Coagulation of blood does not happen

D. All of these

Answer: C



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70. MULTIPLE CHOICE QUESTION

Lime water turns into milky white by

- A. Oxygen
- B. Carbon dioxide
- C. Both A and B

D. Nitrogen

Answer: B

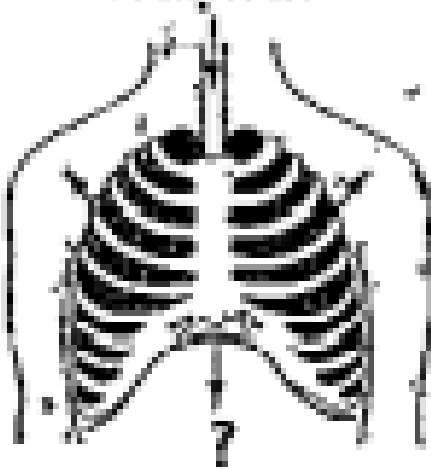


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71. MULTIPLE CHOICE QUESTION

Identify the organ from the picture. ()

Air is
drawn in



A. Diaphragm

B. Heart

C. Liver

D. Kidney

Answer: A



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72. MULTIPLE CHOICE QUESTION

Identify the given blood cells. ()



A. RBC

B. WBC

C. Platelets

D. Veins

Answer: A



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73. MULTIPLE CHOICE QUESTION

Identify the given blood cells. ()



A. RBC

B. WBC

C. Platelets

D. Arteries

Answer: C



74. MULTIPLE CHOICE QUESTION

Match the following :

Match the following:

A		B
1) Fish	()	a) Skin
2) Frog	()	b) Gills
3) Cockroach	()	c) Trachea

A. 1-a, 2-b, 3-c

B. 1-b, 2-c, 3-a

C. 1-b, 2-a, 3-c

D. 1-c, 2-b, 3-a

Answer: C



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75. FILL IN THE BLANK

The process of inhaling air is called....



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76. FILL IN THE BLANK

The process of exhaling air is called....



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77. FILL IN THE BLANK

A larger thin muscular sheet attached to the chest cavity is called



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78. Lime water turns into milky white by



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79. FILL IN THE BLANK

Glucose + Oxygen \rightarrow Carbondioxide

+.....+Energy.



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80. FILL IN THE BLANK

....leads to lung cancer, tuberculosis and other respiratory disorders.



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81. FILL IN THE BLANK

Respiration that takes place via trachea is called.....



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82. FILL IN THE BLANK

The doctor feels our heartbeat with the help of an instrument called a



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83. FILL IN THE BLANK

.....connects arteries with veins and distribute the blood to the body parts.



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84. MATCH THE FOLLOWING

Group - A

Group - B

- | | | |
|---------------------|-----|------------------------------|
| i) Respiratory rate | () | a) Oxygen |
| ii) Von Helmont | () | b) Nicotine |
| iii) Lavoiser | () | c) 14 to 20 times per minute |
| iv) Tobacco | () | d) Lung cancer |
| v) Smoking | () | e) Carbon-dioxide |



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85. MATCH THE FOLLOWING

Group - A

Group - B

- i) Lime water
+ CO₂ () a) RBC
- ii) Heart beat () b) Cockroach
- iii) Fluid portion
of blood () c) Stethoscope
- iv) Hemoglobin () d) Milky white
- v) Colourless
blood () e) Plasma



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86. Frogs breathe through their skin as well as their lungs. Explain.



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87. What are the different components of blood?



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88. Explain the structure and functioning of heart ?



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89. ONE WORD ANSWER QUESTION

Name the three types of blood vessels.



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90. Write the functions of nasal cavity ?



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91. Write the functions of wind pipe ?



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92. Define inspiration



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93. Define expiration



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94. What is respiratory rate ? What is the normal respiratory rate of human ?





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95. What is circulatory system ? Explain parts.



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96. Mention the differences between Respiration and Breathing.



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97. Do plants respire ?



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98. Frame a few questions on human blood.



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99. You read a clipping from newspaper regarding saving a drowned person from

water. What questions you want to ask your mother ?



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100. What questions would you like to ask about action of gases in lungs ?



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101. What questions you want to ask your teacher regarding COVID-19



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102. How can you make your own stethoscope ?



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103. Conduct an activity to show sprouting seeds respire.



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104. Observe the table and answer the following question.

Gas	Inhaled air (%)	Exhaled air (%)
Oxygen	21	15
Carbondioxide	0.04	04
Nitrogen	78	78
Water vapour	0.96	03

What is the percentage of oxygen gas in inhaled air ?



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105. Observe the table and answer the following question.

Gas	Inhaled air (%)	Exhaled air (%)
Oxygen	21	15
Carbondioxide	0.04	04
Nitrogen	78	78
Water vapour	0.96	03

What is the difference between the percentage of exhaled and inhaled carbondioxide gas ?



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106. Observe the table and answer the following question.

Gas	Inhaled air (%)	Exhaled air (%)
Oxygen	21	15
Carbondioxide	0.04	04
Nitrogen	78	78
Water vapour	0.96	03

For which gas there is no change in both the cases ?



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107. Observe the table and answer the following question.

Gas	Inhaled air (%)	Exhaled air (%)
Oxygen	21	15
Carbondioxide	0.04	04
Nitrogen	78	78
Water vapour	0.96	03

What is the percentage of water vapour in exhaled air ?



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108. Write the respiratory organs in the blanks given in the table

Organism
1) Cockroach
2) Frog
3) Fish
4) Human



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109. Fill the following table with the function of blood cells.

Blood cell	Function
1) White Blood Cells (WBC)	
2) Red Blood Cells (RBC)	
3) Blood platelets	



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110. Draw a neat sketch of structure that is responsible for the exchange of gases in plants.





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111. Draw a neat sketch of the organ that pump blood to our body.



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112. Draw a neat sketch of structure of the lungs.



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113. What is pandemic ? How can we prevent it ?



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114. Explain in brief COVID-19.



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115. How COVID-19 virus spreads primarily ?



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116. What are the best ways to prevent it ?



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117. ONE WORD ANSWER QUESTION

Write the COVID Protocol.



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118. What steps are taken to control or free from the COVID-19 infection in the preliminary

stage ?



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119. Why we should not talk while eating ?



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120. How do you appreciate the efforts of frontline workers during COVID-19 pandemic period ?



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