



I. Write the correct version of the statements given below.

1. On a cold day, when we breathe out, water vapour in our breath evaporates on coming in contact with the hot air of the atmosphere and mist is formed.

2. Carbon dioxide in the air we breathe out, makes the heat coming out of the hot soup escape faster.

3. Complete burning of the fuel in the chullah takes place when more water is poured and cooking becomes faster.

II. Given below are two statements - one labelled *Assertion* (A) the other labelled *Reason* (R). Select the correct answer to these questions from the codes a), b), c) and d) as given below.

a) Both A and R are true and R is the correct explanation of A.

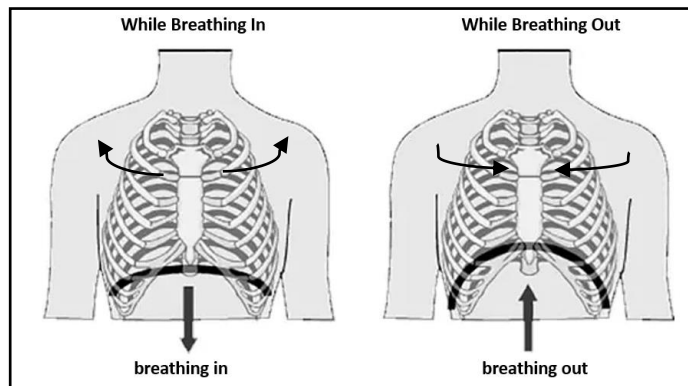
b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

		Statement	Answer
1.	Assertion	Ribcage is protected by the lungs.	
	Reason	Lungs are breathing organs in which gases are exchanged.	
2.	Assertion	The nasal passage joins the nostrils to the windpipe.	
	Reason	We breathe in air through our nostrils.	
3.	Assertion	We breathe faster when we do physical exercise.	
	Reason	We need more oxygen when we do physical exercise.	

III. Observe the diagram given below. Based on your understanding of the diagram, distinguish the role of the rib cage, the diaphragm, and the chest in the process of breathing in and breathing out.



	While Breathing In	While Breathing Out
Ribcage		
Diaphragm		
Chest		

IV. Application-based questions.

1. Kim jogs every day. She finds that jogging helps her to stay fit and healthy. While jogging, her breathing rate increases. Why?

2. During the winter holidays Naveen went to Jabal Akhdar with his family. When he spoke, he found a cloud of mist coming out of his mouth. What could be the reason for this?
