INDIAN SCHOOL AL WADI AL KABIR		
Class: VII	Department: SCIENCE-2020-21	Date of completion: 18.10.2020
TEXTBOOK- Q &A	Topic: Winds, storms and cyclones	Note: A4 FILE FORMAT
Name of the student:	Class & Section:	Roll no.

Exercise Questions

1. Fill the missing word in the blank spaces in the following statements:

(a) Wind is——————air.

(b) Winds are generated due to——————heating on the earth.

(c) Near the earth's surface _____ air rises up whereas _____ air comes down.

(d) Air moves from a region of ——— pressure to a region of——— pressure.

Hint:

(a) Wind is **moving** air.

(b) Winds are generated due to **uneven** heating on the earth.

(c) Near the earth's surface, **warm** air rises up whereas **cold** air comes down.

(d) Air moves from a region of **high air** pressure to a region of **low air** pressure.

2. Suggest two methods to find out wind direction at a given place.

Hint:

Methods to finding out the wind direction at a given place are as follows

i. By seeing the direction of dry leaves released in the air.

ii By seeing the direction in which it is difficult to ride the bicycle.

3. State two experiences that made you think that air exerts pressure (other than those given in the text).

Hint:

i. When we fill the air in the balloon, it becomes tight and if we try to fill more air balloon will get burst which proves air exerts pressure.

ii. Wind causes curtains, doors and windows to move with the direction of the wind. This demonstrates air exerts pressure.

4. You want to buy a house. Would you like to buy a house having windows but no ventilators? Explain your answer.

Hint:

It is not a good idea to buy a house without ventilators because warm air is lighter than cold air hence warm air passes out of our home through ventilators. Accordingly, without ventilators, warm air will not pass out, and the house will remain warm.

5. Explain why holes are made in hanging banners and hoardings.

Hint:

Holes in the banners and hoardings helps air to pass through it. Hence banner can withstand the pressure of the air and hence remains intact.

6. How will you help your neighbours in case cyclone approaches your village/town?

Hint:

We can help our neighbours in case a cyclone approaches, by any of the following measures:

- By helping them shift to a safer place.
- By helping them to shift their animals, necessary households and vehicles to a safer place.
- By calling emergency services such as fire station, police and medical centres.

7. What planning is required in advance to deal with the situation created by a cyclone?

Hint:

- We should not ignore the warnings issued by the meteorological department through TV, radio, or newspapers.
- We should — make necessary arrangements to shift the essential household goods, domestic animals and vehicles, etc. to safer places;
- Avoid driving on roads through standing water, as floods may have damaged the roads.
- Phone numbers of all emergency services like police, fire brigade, and medical centres should be handy.
- Always store drinking water for emergencies.
- Do not touch wet switches and fallen power lines.
- Do not pressurise the rescue force by making undue demands.
- Cooperate and help your neighbours and friends.

8. Which one of the following places is unlikely to be affected by a cyclone.

(i) Chennai

(ii) Mangaluru (Mangalore)

(iii) Amritsar

(iv) Puri

Hint:

The answer is (iii) Amritsar because Amritsar is far away from the sea while the remaining three are coastal areas and are likely to be hit by cyclone.

9. Which of the statements given below is correct?

(i) In winter the winds flow from the land to the ocean.

(ii) In summer the winds flow from the land towards the ocean.

(iii) A cyclone is formed by a very high-pressure system with very high-speed winds revolving around it.

(iv) The coastline of India is not vulnerable to cyclones.

Hint:

The answer is (i) In winter, the winds flow from the land to the ocean.

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