



# BIOLOGY

## NCERT - NCERT Biology(TELUGU)

### AIR, WINDS AND CYCLONES

#### Exercise

1. experiment that shows wind direction at given place



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2. what is use constructing ventilators



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3. Statement A: Cyclones may be caused due to wind travelling at high speed owing to difference in air Pressure. Statement B: The destruction of a cyclone depends only on its location.



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4. In the day time, when we go to the sea the air blows towards us and does not go towards the sea. Explain.



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5. State two experiences that make you think that air exerts pressure. ( Other than those given in the text).



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6. Explain why holes are made in banners and hoarding hanging in the open?



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7. How else does wind effect and influence our lives?



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8. How do the winds arise?



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**9.** Did the paper in the glass get wet or not?



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**10.** What would happen if you tilt the glass while immersing it in water?



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**11.** What is the code of the deformed bottle ?



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**12.** Living things and non living things :

How do we know whether some things are living and some others are non living?



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**13.** Is it correct to say line AB as line BA? Why?



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**14.** Assertion (A) : A saturated solution is that solution which can dissolve any more of solute only on heating. Reason (R) : If a saturated solution is cooled some of the solute can be seen at the bottom of the container.



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**15.** Identify the correct one, give reasons :What will happen when you blow air into the test containing lime water?



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**16.** State two experiences that make you think that air exerts pressure.



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**17.** State two experiences that make you think that air exerts pressure.



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**18.** What happens to air on heating it?



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**19.** What happens to air on cooling it?



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**20.** What is the relation between hot air and cold air regarding weight?



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**21.** How do winds occur?



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**22.** How the metals are present in nature?



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**23.** How are land breezes caused?



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**24.** What would happen if you tilt the glass while immersing it in water?



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**25.** Name the factors that contribute to cyclone ?



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**26.** Expand IMD.



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**27.** Do you feel any sensation on your skin?



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**28.** In which of the following case do you think the long-term effects on your health are likely to be most unpleasant? (a) if you get jaundice (b) if you get lice (c) if you get acne



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**29.** Why does the stone lose weight when it is immersed ?



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**30.** State two experiences that make you think that air exerts pressure.



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**31.** State two experiences that make you think that air exerts pressure. ( Other than those given in the text).



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**32.** What happens to the wall of the uterus during menstruation ?



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**33.** Food sometimes enters the wind pipe and causes choking. How does it happen?



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**34.** Pests are not controlled by the pesticides. Why does this happen?



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**35.** Why should we use cloth bags instead of polythene bags?



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**36.** Why did this happen ?



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**37.** A capillary tube immersed in water is kept in an ascending lift whose acceleration is equal to  $g$ . What happens to the rise in the capillary tube  $h$ ?



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**38.** What happens to air on heating it?



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**39.** What happens to the weight of a body when it is charged positively?



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**40.** What is a cyclone ? What are the other names for it ?



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**41.** How can you prepare a base by doing a simple experiment ?



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**42.** Do winds cause harm ? Explain.



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**43.** What are the post cyclone measures we have to take ?



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**44.** What factors contribute to cyclone ? When and where do they likely to occur?



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**45.** What are the effects of cyclone ? On what factors the destruction of a cyclone depend?



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**46.** List the types of clothes we wear in different seasons.



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**47.** Explain different measures to take care after cyclone.



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**48.** Ram wanted to know about air and its pressure. What questions may arise in his mind ? Frame some of them.



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**49.** Describe different types of winds.



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**50.** Compare the duration of days in December and May months with the help of the table given below. Answer the following questions. Do December and May belong to the same season? If not, to which seasons do they belong ?



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**51.** State two experiences that make you think that air exerts pressure.





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52. What happens to air on heating it?



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53. How are winds useful in our life?



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54. Write the Do.s and Don.ts during cyclones.







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**55.** How do you prove that a more reactive metal can replace a less reactive metal from its salt? Perform an activity and write (record) your observations.



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**56.** To form the image on the object itself, how should we place the object in front of a concave mirror ? Explain with a ray diagram.



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**57.** How has advanced technology helped to detect cyclones ?



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**58.** Draw a neat labelled diagram of anemometer that you prepared in the school.



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59. Which mixture is lighter than humid air?



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60. Clothes dry faster on a :

A. rainy day

B. cloudy day

C. windy day

D. stormy day

**Answer:**



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61. An empty bottle contains:

A. watervapour

B. air

C. carbondioxide

D. moisture

**Answer:**



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62. Air \_\_\_\_\_ on heating:

A. expands

B. cools

C. contracts

D. becomes heavy

**Answer:**



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**63.** If the difference in pressure is more, the air moves:

A. slower

B. doesn't move

C. faster

D. remains still

**Answer:**



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**64.** These are a form of violent storms on earth:

A. Cyclones

B. Sand dunes

C. Tsunami

D. Earth quake

**Answer:**



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65. (A): Neon is used to fill advertisement glass bulbs

(R): Neon gives coloured discharge at low pressure

A. cool

B. hot

C. warm

D. air containing more moisture

**Answer:**



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66. Land breeze is happened at \_\_\_\_\_

A. Night

B. day

C. mid day

D. never

**Answer:**



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67. The destruction of a cyclone depends mainly on its\_\_\_\_\_

A. Intensity

B. Size

C. Location

D. All the above

**Answer:**



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68. More cyclones tend to occur in the \_\_\_ sea.

A. Indian Ocean

B. Bay of Bengal

C. Arabian Sea

D. None of these

**Answer:**



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**69.** The destruction of a cyclone depends mainly on its i) intensities, ii) size iii) location. iv) time of occurrence

A. i and iii only

B. i and ii only

C. i ,ii and iii only

D. All of these

**Answer:**



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70. Thermostat works on the principle of

A. Air is compressible

B. Air has volume

C. Air exerts pressure

D. Air possess weight

**Answer:**



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71. The direction of wind flow gets usually reversed in the months from\_\_\_\_\_

- A. December to March
- B. October to December
- C. May to June
- D. October to November

**Answer:**



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72. In India more cyclones tend to occur on the \_\_\_\_\_ side.

A. western

B. eastern

C. northern

D. southern

**Answer:**



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73. \_\_\_\_ may be caused due to wind travelling at high speed due to difference in air pressure

A. land breeze

B. sea breeze

C. cyclones

D. winds

**Answer:**



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74. IMD means. \_\_\_\_\_

- A. Indian Mythological Department
- B. Indian Monitoring Department
- C. International Machinery Department
- D. Indian Meteorological Department

**Answer:**



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75. \_\_\_plays an Important role in the formation of storms.

A. Heat

B. Humidity

C. Clouds

D. Wind speed

**Answer:**



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76. Statement (A) : Group IIA elements try to lose two valence electrons from their atoms during chemical change. Statement (B) : Group VII A elements try to lose two valence electrons from their atom during the chemical change.

A. Both A and B are true

B. A is true but B is false

C. A is false but B is true

D. Both A and B are false

**Answer:**



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77. Statement A: Cyclones may be caused due to wind travelling at high speed owing to difference in air Pressure. Statement B: The destruction of a cyclone depends only on its location.

A. Both A and B are true

B. A is true but B is false

C. A is false but B is true

D. Both A and B are false

**Answer:**



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**78.** Which plays an important role in the formation of storms?

A. wind speed

B. heat

C. clouds

D. rain

**Answer:**



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**79.** Which of the following statement is true

A. I only

B. i and iii only

C. ii only

D. All of these

**Answer:**



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**80.** Rearrange the following sentences in a correct order (i) Collect the white ash and dissolve it in a little water (ii) The red litmus turns into blue colour and so the solution is basic in nature. (iii) Burn a small piece of Magnesium ribbon by holding it with tongs (iv)

Touch the solution formed and test this solution with blue litmus and red litmus.

A. ii, iv, iii, i

B. iii, i, iv, ii

C. iv, i, iii, ii

D. ii, i, iv, iii

**Answer:**



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**81.** The speed of wind can be determined by the following instrument:

A. Barometer

B. Voltmeter

C. Speedometer

D. Anemometer

**Answer:**



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82. A cyclone is called \_\_\_\_\_ in the American continent:

A. Laila

B. Typhoon

C. Hurricane

D. Tsunami

**Answer:**



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83. In India cyclones occur in \_\_\_\_\_ months.

A. May-June

B. October-November

C. A and B

D. Summer

**Answer:**



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**84.** Which of the following country has high temperature

A. South Africa

B. USA

C. India

D. Austrila

**Answer:**



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85. The information about cyclones will be given by \_\_\_\_

A. Radars

B. Satellites

C. both A and B

D. Internet

**Answer:**



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**86.** Which of the following shows optical activity ?

A. Air possess weight

B. Air exerts pressure

C. Hot air has less weight than cold air

D. Air moves from one place to another

**Answer:**



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87. In which season coastal areas have high humidity

A. winter

B. autumn

C. summer

D. rainy season

**Answer:**



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**88.** The difference in heating of land and water by the sun leads to:

A. Cyclones

B. Hurricanes

C. Typhoons

D. Sea breezes

**Answer:**



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**89.** The fore warning of a coming cyclone is taking only a few hours due to the latest technology of :

A. air balloons

B. ships

C. satellites

D. rockets

**Answer:**



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**90.** Fill in the Blanks : Wind is \_\_\_\_ air.



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**91.** Fill in the Blanks : Winds are generated due to \_\_\_\_ heating on the earth



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**92.** Fill the missing words in the blank spaces in the following statements.

Near the earth's surface \_\_\_\_\_ air rises  
up whereas \_\_\_\_\_ air comes down.



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**93.** Fill in the Blanks : Air moves from a region  
of \_\_\_\_ pressure to a region of \_\_\_\_ pressure.



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