

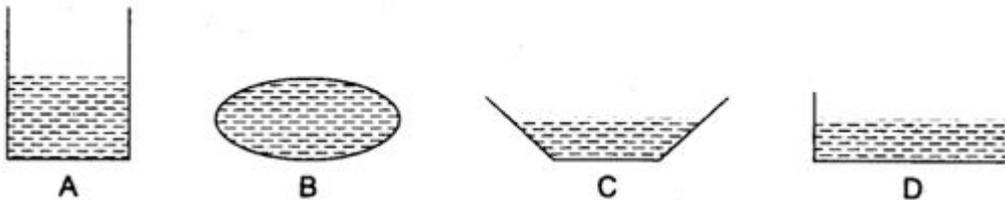


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OLYMPIAD PRACTICE WORKSHEET

1. A glass containing ice has water droplets around it. What conclusion can be drawn from this

- a. The water from the ice has settled outside the glass
- b. There is water in the air which has got condensed around the glass
- c. The glass is sweating
- d. The glass of ice is not so strong hence water goes through the glass and settles outside

2. There are 4 containers A, B, C, D with same amount of water. Name the container from which water evaporates fastest.



- a. A
- b. B
- c. C
- d. D

3. Fog appearing on a cold winter morning and Blackboard dries up after wiping it is due to:

- a. Evaporation and condensation respectively
- b. Condensation and evaporation respectively
- c. Neither Evaporation nor condensation
- d. both Evaporation and condensation

4. One way of increasing the availability of water is to collect rainwater and store it for later use. This is called _____

- a. Rain water catching
- b. Rain water harvesting
- c. Catching water
- d. Water collection in catchment areas

5. Plants depend on animals and animals depend on plants. How?

- a. Plants cannot get water without animals
- b. Plants use carbon dioxide for preparing food and animals give out carbon dioxide during respiration. Thus, a balance is maintained in the oxygen –carbon dioxide level.
- c. Plants and animals cannot live without food and shelter.
- d. None of the above.

6. The ratio of nitrogen to oxygen in air is approximately

- a. 1:4

- b. 4:1
- c. 1:3
- d. 3:1

7. Which of the following upsets the balance of gases in nature

- a. Air pollution
- b. Deforestation
- c. Soil erosion
- d. a) and b) both

8. Which of the following state mentioned is "True"?

- a. Water vapour is present in air only during the monsoon.
- b. Water evaporates into air from oceans, rivers and lakes but not from the soil.
- c. The process of water changing into its vapour, is called evaporation.
- d. The evaporation of water takes place only in sunlight.

9. Which of the following is due to condensation.

- a. Steam rising from wet clothes while they are ironed.
- b. Fog appearing cold winter morning.
- c. Blackboard dries up after wiping it.
- d. Steam rising from a hot girdle when water is sprinkled on it.

10. Which of the following is not a source by which water in rivers, lakes, ponds, wells and soil is replenished:

- a. Rain
- b. Hail
- c. Snow
- d. Evaporation

11. Take an empty glass bottle. Turn it, upside down. Now, dip the open mouth of the bottle into the bucket filled with water. Now tilt the bottle slightly. You can see bubbles coming out of the bottle or hear any bubbly sound. Which of the following cannot be inferred from this activity?

- a. Air is everywhere. It is present even in the empty bottle.
- b. Air does not have any colour and it is transparent
- c. Air has weight
- d. Air occupies space

12. How much water is consumed by a city-dweller in washing, bathing, flushing the toilet etc.?

- a. 3-5 litres
- b. 20-40 litres
- c. 100-300 litres
- d. 1000-2000 litres

13. Fix two small candles of the same size in the middle of two shallow containers. Now, fill the containers with some water. Light the candles and then cover each one of them

with an inverted glass (one much taller than the other) Observe carefully what happens to the burning candles and the water level. What do you not infer from this experiment:

- a. There is a component of air that is required for burning
- b. As that component has been consumed during burning the candles went off.
- c. The height of the water in the inverted glasses is $\frac{1}{5}$ th the height of the glass. It means that component is $\frac{1}{5}$ th of the air
- d. The remaining air is nitrogen

14. When it rains heavily earthworms come out of the soil because

- a. They like rain
- b. No air is left in soil for them
- c. No food is left in the soil for them
- d. Soil is wet

15. We should breathe through the nose and not by the mouth, because _____

- a. it is a bad habit
- b. the air is moisturized when we breathe through mouth
- c. the hair and mucus in our nostrils trap soot and dust particles present in the air
- d. it is natural phenomenon

16. Mountaineers carry oxygen cylinder with them because:

- a. The air is very cold up the mountain
- b. There is less air on the top of the mountain
- c. They feel happy carrying the oxygen cylinders
- d. Oxygen is required for burning

17. Nitrogen is a part of

- a. Starch
- b. Sugar
- c. Protein
- d. Fats

18. Evaporation of water in shade is

- a. Faster
- b. Slower
- c. No change
- d. None of the above

19. To clean their spectacles, people often breath out on glasses to make them wet. Explain while the glasses become wet?

- a. The most air coming out from mouth condenses on glasses to make glasses wet.
- b. The most air coming out from mouth evaporates to make glasses wet
- c. The most air in atmosphere make glasses wet
- d. None of the above

20. Which of the below is most harmful component in air over industrial cities.

- a. Oxygen
- b. Sulphur
- c. Nitrogen
- d. Argon