



# CHEMISTRY

## BOOKS - JNAN PUBLICATION

### KNOW ABOUT SOME COMMON GASES (OXYGEN AND HYDROGEN)

#### Example

1. Catalase enzyme breaks down hydrogen peroxide into\_\_\_\_\_

A. oxygen

B. hydrogen

C. water and oxygen

D. water and hydrogen

**Answer:**



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2. Number of isotopes in oxygen \_\_\_\_\_

A. three

B. four

C. two

D. five

**Answer:**



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**3. Freezing point of liquid oxygen is \_\_\_\_\_**

A.  $-183^{\circ}C$

B.  $-100^{\circ}C$

C.  $-118^{\circ}C$

D.  $-218^{\circ}C$

**Answer:**



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4. Oxygen is \_\_\_\_\_

A. colourless

B. odourless

C. tasteless

D. all of the above

**Answer:**



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**5. Water is made up of**

A. hydrogen

B. oxygen

C. hydrogen and oxygen

D.

**Answer:**



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6. Which of the following is true \_\_\_\_\_

- A. hydrogen is the lightest gas
- B. hydrogen is heavier than air
- C. oxygen is lighter than air
- D. hydroge is equal to air in weight

**Answer:**



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7. Which of the following fertilizer?

A. urea

B. ammonium sulphate

C. ammonium nitrate

D. atomic oxygen

**Answer:**



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8. Which of the following is chemical property of hydrogen?

- A. not inflammable
- B. inflammable
- C. formation of oxide
- D. not diatomic

**Answer:**



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9. Which of the following material is required for preparation of hydrogen gas?

- A. magnese dioxide
- B. solution of hydrogen peroxide
- C. impure zinc granules
- D. pure zinc granules.

**Answer:**



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**10. State whether True or False:-**

Oxygen is slightly heavier than air.



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**11. State whether True or False:-**

Atomic oxygen is a powerful oxidizing agent.



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**12. State whether True or False:-**

Hydrogen is indispensable in manufacturing

nitric acid.



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**13.** State whether True or False:-

Oxygen is completely soluble in water.



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**14.** State whether True or False:-

Oxygen can combine directly with most of the metals and non-metals.



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**15.** State whether True or False:-

Hydrogen is heavier than air.



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**16.** State whether True or False:-

Hydrogen is used in production of ammonia.



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**17. State whether True or False:-**

A woulfe bottle is necessary for prepartion of hydrogen.



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**18. State whether True or False:-**

Hydrogen gas does not help in burning.



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**19.** State whether True or False:-

Manganese dioxide is required for preparation of hydrogen.



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**20.** Fill in the blanks:

Hydrogen is necessary in many \_\_\_\_\_ industries.



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21. The industrial world gets its requirement of oxygen from \_\_\_\_\_.



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22. State whether True or False:-

Aluminium reacts with oxygen and produce \_\_\_\_\_.



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**23. Fill in the blanks:-**

Colourless nitric oxide gas is oxidized to brown \_\_\_\_\_ in contact with oxygen.



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**24. State whether True or False:-**

The main use of hydrogen is in the production of \_\_\_\_\_.



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**25.** State whether True or False:-

Air is about 14.4 times heavier than \_\_\_\_\_.



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**26.** State whether True or False:-

Hydrogen does not help in burning but it is  
\_\_\_\_\_.



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27. State whether True or False:-

Platinum can absorb \_\_\_\_\_ gas at normal temperature.



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28. Match the following:-

Column A	Column B
a) Oxygen is slightly	i) manufacturing nitric acid.
b) Atomic oxygen is a powerful	ii) from vegetable oils.
c) Alkaline potassium pyrogallate solution	iii) insoluble in water.
d) Oxygen is indispensable in	iv) oxidizing agent.
e) hydrogen is used to produce edible fats	v) is $-218^{\circ}\text{C}$
f) Hydrogen is almost	vi) hydrogen is colourless and tasteless.
g) Freezing point of liquid oxygen	vii) heavier than air.
h) Oxygen is	viii) react with oxygen.
i) Under normal conditions	ix) absorbs oxygen and turns blue.
j) Aluminium and zinc	x) not inflammable.



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29. What does the decomposition of  $H_2O_2$  produce?



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30. What is the chemical symbol of hydrogen?



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31. What is the specific gravity of hydrogen?





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**32.** How is hydrogen detected?



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**33.** Is hydrogen water soluble?



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**34.** What is the specific gravity of oxygen?





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**35.** What is the chemical symbol of oxygen?



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**36.** Is oxygen flammable?



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**37.** When the oxygen level in air considered to be dangerous?



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**38.** What element in the air is essential for life?



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**39.** Write two advantages of having oxygen in air.



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**40.** What happens when Oxygen reacts with non-metals?



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**41.** Why oxygen is called acid producer?



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**42.** Mention some metals which absorb oxygen.



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**43.** What are the materials required for preparation of oxygen gas from hydrogen peroxide?



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**44.** What are the materials required for preparation of oxygen gas from potassium chlorate?



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**45.** What are the materials required for laboratory preparation of hydrogen gas?



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**46.** What are the advantages of having oxygen in air?



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**47.** What vital role oxygen play during respiration of living beings?



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**48.** Write down some absorber of oxygen.



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**49.** Write some uses of oxygen.



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**50.** Write the way of preparation of oxygen in laboratory with the question.



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**51.** Write some use of hydrogen.



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**52.** Write some physical properties of oxygen.



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**53.** Write two physical properties and two chemical properties of Hydrogen.



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