



CHEMISTRY

BOOKS - ICSE

SPECIMEN PAPER 2



1. Choose the correct word from the brackets

to complete the sentences.

Sulphur dioxide turns (acidic/alkaline)

potassium dichromate paper green.



2. Choose the correct word from the brackets

to complete the sentences.

The element which shows variable valency is

(Iron, Sodium, Aluminium)

3. Choose the correct word from the brackets

to complete the sentences.

Pressure-volume relationship is given by

___ (Boyle's, Charles's) law.

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4. Choose the correct word from the brackets

to complete the sentences.

Hydrogen gas is adsorbed by metal __

(Copper, Aluminium, Palladium)





5. Choose the correct word from the brackets to complete the sentences.

Acid reacts with base to give salt and water.

The reaction is known as

(Decomposition,

Neutralisation,

Displacement.)



6. Give reasons for the following

The physical properties of isotopes are different.



7. Give reasons for the following

Conc. sulphuric acid is used as a dehydrating

agent.

8. Give reasons for the following

 $AlCl_3$ is known as Aluminium chloride while

 PCl_3 is known as phosphorus trichloride.



9. Give reasons for the following

Hydrogen is kept in I A group of the periodic

table.

10. Give reasons for the following

Table salt absorbs moisture during the rainy

season.



11. Name the type of reactions for the following chemical equations.

 $2SO_2 + O_2 \stackrel{V_2O_5}{\Longleftrightarrow} 2SO_3$

12. Name the type of reactions for the following chemical equations. $CuSO_4 + Fe o FeSO_4 + Cu$

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13. Name the type of reactions for the following chemical equations.

 $PbO + SO_2 \rightarrow PbSO_3$

14. Name the type of reactions for the

following chemical equations.

 $CuO+H_2
ightarrow Cu+H_2O$

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15. Name the type of reactions for the following chemical equations.

 $3Fe + 4H_2O_{(ext{steam})} \Leftrightarrow Fe_3O_4 + 4H_2$

	Element	At. No.	Mass No.	Р	N	electronic configuration
	в	11	23	11	_	_
	С	17	35	_	18	2, 8, 7
16.	D	_	37	17	_	

- (i) Study the above table and fill in the blanks.
- (ii) What is the relationship between C and D

elements ?

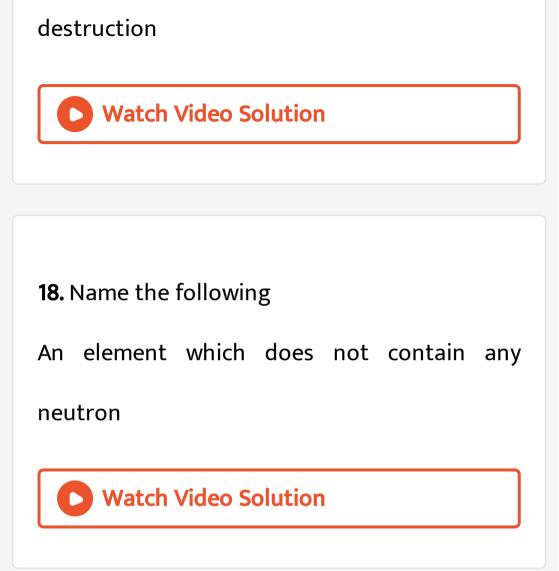
- (iii) Define the term stated in (ii).
- (iv) Write the formula of compound formed

between D and B.

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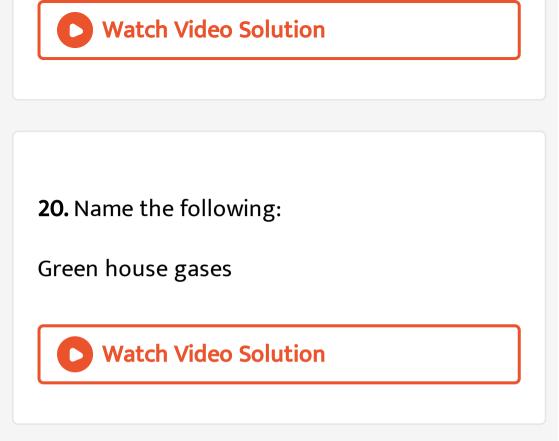
17. Name the following

Chemicals responsible for ozone layer



19. Name the following

A salt which has zinc in its anion



21. Name the following

Drying agent for hydrogen chloride gas

22. Define or explain :

Charles's Law



23. Define or explain :

Absolute zero

24. Define or explain :

Deliquescence

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25. Define or explain :

Efflorescence



26. Define or explain :

Modern periodic law.

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27. What volume would a gas occupy at 2 atm.

and $227^{\circ}C$ if its volume at S.T.P. is 2-5 litres.

28. An element X form a hydroxide $X(OH)_3$.

Find the valency of X

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29. An element X form a hydroxide $X(OH)_3$.

Write the formula of its carbonate.

30. Give one example of each

Solid oxidising agent

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31. Give one example of each

Negative catalyst

32. Give one example of each

Hygroscopic solid substance

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33. Give one example of each

A non-metallic reducing agent

34. Give one example of each

A gaseous substance which acts as an

oxidising as well as a reducing agent.

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1. Give reasons :

Sodium is kept in an inert solvent.

2. Give reasons :

Hydrogen is collected by downward

displacement of water.

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3. Give reasons :

Hydrogen is not prepared by reacting conc

 H_2SO_4 with Zn

4. Give reasons :

Conc. sulphuric acid is used as drying agent.

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5. Give reasons :

Detergents are better than soap.

6. Give the test of the gas evolved when dilute

sulphuric acid is added to the following:

Magnesium metal



7. Give the test of the gas evolved when dilute

sulphuric acid is added to the following:

Sodium carbonate

8. Give the test of the gas evolved when dilute

sulphuric acid is added to the following:

Sodium sulphide



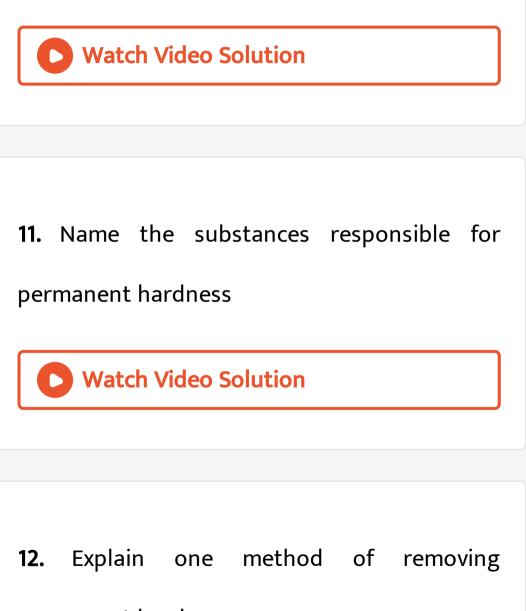
9. Give the test of the gas evolved when dilute

sulphuric acid is added to the following:

Potassium sulphite

10. Give an example of a reaction where heat is

released.



permanent hardness.



13. Complete the table by writing the following

as basic and acidic radicals and then their formulae :

Name	Basic radical	Acidic radical	Formula
(i) Magnesium hydrogen sulphate			
(ii) Aluminium sulphate			
(iii) Ammonium phosphate			

14. State the cause of acid rain and mention its

impact.



15. Explain why : Fused $CaCl_2$ or conc. H_2SO_4

is used in a desiccator.



16. Explain why?

conc. sulphuric acid should be stoppered.

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17. Write balanced equations for the following reactions.

Water is reacted with sodium.

18. Write balanced equations for the following

reactions.

Steam is passed over red hot iron.



19. Write balanced equations for the following

reactions.

Ammonium dichromate is heated.

20. Write balanced equations for the following reactions.

Lead reacts with hot and conc. caustic soda

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21. Write balanced equations for the following reactions.

Copper reacts with conc. sulphuric acid to produce copper sulphate, sulphur dioxide and

water.



22. What are isotopes ? Draw the structures of

the isotopes of hydrogen.



23. Compare three properties of hydrogen

which resembles the alkali metals.

24. At what centigrade temperature will the volume of a gas at $0^{\circ}C$ triple itself if the pressure remains constant.



25. Hydrogen is prepared by Bosch process ?

Write the balanced equations of the reactions

with conditions.



26. Hydrogen is prepared by Bosch process ?

How are the products separated ?



27. Write the name of the product formed and

give balanced equation of the reaction when :

ammonium chloride is heated



28. Write the name of the product formed and

give balanced equation of the reaction when :

calcium is reacted with cold water



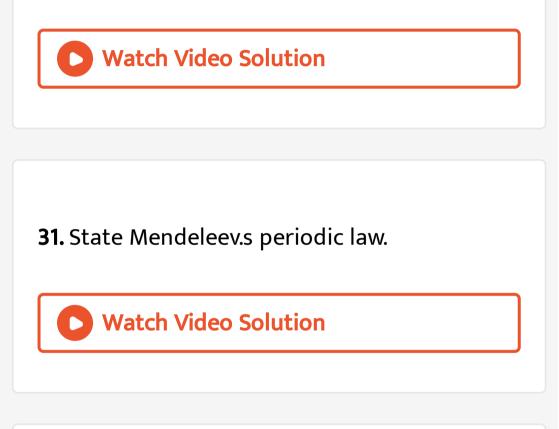
29. Write the name of the product formed and

give balanced equation of the reaction when :

lead nitrate is heated

30. Give a general idea of Dobereiner triads

with one example.



32. An element X has atomic number 17 and

has mass no. 37.

Draw its orbital structure and state the

position of X in the periodic-table.



33. Write the molecular formula of magnesium

phosphate.

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34. What is the percentage of phosphorus in

magnesium phosphate ?

[At. Mass : Mg = 24, P = 31, O = 16]