



CHEMISTRY

NCERT - NCERT Chemistry(Hinglish)

MATERIALS : METALS AND NON-METALS

Question

1. Which of the following can be beaten into thin sheets?

A. Zinc

B. Phosphorus

C. Sulphur

D. Oxygen

Answer:



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2. Which of the following statements is correct?

- A. All metals are ductile.
- B. All non-metals are ductile.
- C. Generally, metals are ductile.
- D. Some non-metals are ductile.

Answer:



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3. Fill in the blanks:

Phosphorus is a very _____ non-metal



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4. Fill in the blanks:

Metals are _____ conductors of heat and _____.



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5. Fill in the blanks:

Iron is _____ reactive than copper.



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6. Metals react with acids to produce ____ gas.



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7. Mark 'T' if the statement is true and 'F' if it is false.

Generally, non-metals react with acids.



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8. Mark 'T' if the statement is true and 'F' if it is false.

Sodium is a very reactive metal.



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9. Mark 'T' if the statement is true and 'F' if it is false.

Copper displaces zinc from zinc sulphate solution. ()



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10. Mark 'T' if the statement is true and 'F' if it is false.

Coal can be drawn into wires



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11. Some properties are listed in the following Table. Distinguish between metals and non-

metals on the basis of these properties.

Properties	Metals	Non-metals
1. Appearance		
2. Hardness		
3. Malleability		
4. Ductility		
5. Heat Conduction		
6. Conduction of Electricity		



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12. Give reasons for the following.

Aluminium foils are used to wrap food items.



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13. Give reasons for the following.

Immersion rods for heating liquids are made up of metallic substances.



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14. Give reasons for the following.

Copper cannot displace zinc from its salt solution



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15. Give reason:

Sodium, potassium and lithium are stored under oil



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16. Can lemon pickle be stored in an aluminium utensil? Explain.



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17. Match the substances given in Column A with their uses given in Column B.

A		B	
(i)	Gold	(a)	Thermometers
(ii)	Iron	(b)	Electric wire
(iii)	Aluminium	(c)	Wrapping food
(iv)	Carbon	(d)	Jewellery
(v)	Copper	(e)	Machinery
(vi)	Mercury	(f)	Fuel



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18. What happens when

Dilute sulphuric acid is poured on a copper plate?



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19. What happens when

Iron nails are placed in copper sulphate solution? Write word equations of the reactions involved



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20. Saloni took a piece of burning charcoal and collected the gas evolved in a test tube.

How will she find the nature of the gas?

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21. Prateek took a piece of burning charcoal and collected the gas evolved in a test tube.

(a) How will he find the nature of the gas?

(b) Write down word equations of all the reactions taking place in this process?

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22. One day Kavita went to a jewellers shop with her mother. Her mother gave an old metal jewellery to the goldsmith to polish. Next day when they brought the jewellery back, they found that there was a slight loss in its weight. Can you suggest a reason for the loss in weight?



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