



CHEMISTRY

BOOKS - PSEB

METALS AND NON-METALS

Exercise

1. Which of the following pairs will give displacement reactions:

A. NaCl solution and copper metal

B. $MgCl_2$ solution and aluminium metal

C. $FeSO_4$ solution and silver metal

D. $AgNO_3$ solution and copper metal

Answer:



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2. Which of the following methods is suitable for preventing an iron frying pan from rusting:

A. Applying grease

B. Applying paint

C. Applying a coating of zinc

D. All of the above

Answer:



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3. An element reacts with oxygen to give a compound with a high melting point. This

compound is also soluble in water.the
element is likely to be:

A. calcium

B. carbon

C. silicon

D. iron

Answer:



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4. Food cans are coated with tin and not with zinc because:

- A. zinc is costlier than tin
- B. zinc has a highr melting point than tin
- C. zinc is more reactive than tin
- D. zinc is less reactive than tin

Answer:



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5. You are given a hammer, a battery, a bulb, wires and a switch. How could you use them to distinguish between samples of metals and non-metals?



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7. What are amphoteric oxides? give two examples of amphoteric oxides?



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8. Name two metals which will displace hydrogen from dilute acids, and two metals which will not



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9. In the electrolytic refining a metal M what would you take as the anode, cathode and electrolyte?



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10. Pratyush took sulphur powder on a spatula and heated it. he collected the gas evolved by inverting a test tube over it as shown in figure.

what will be the action of gas on.

dry litmus paper.



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12. Pratyush took sulphur powder on a spatula and heated it. he collected the gas evolved by

inverting a test tube over it as shown in figure.

what is action of gas on moist litmus paper.

write a balanced chemical equation for the reaction taking place



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13. State two ways to prevent the rusting of iron



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14. What type of oxides are formed when non-metals combine with oxygen?



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15. Give reasons: Platinum, gold and silver are used to make jewellery



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16. Give reasons: sodium, potassium and lithium are stored under oil.



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17. Give reasons: aluminium is highly reactive metal, yet it is used to make utensils for cooking.



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18. Give reasons: Carbonate and sulphide ores are usually converted into oxides during the process of extraction



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19. You must have seen tarnished copper vessels being cleaned with lemon or tamarind juice. explain why these sour substances are effective in cleaning the vessels.



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20. Differentiate between metals and non-metals on the basis of their chemical properties



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21. A man went door to door posing as a goldsmith he promised to bring back the glitter of old and dull gold ornaments an unsuspecting lady gave a set of gold bangles to him which he dipped in a particular

solution the bangles sparkled like new but their weight was reduced drastically the lady was upset but after a futile argument the man beat a hasty retreat can you play the detective to find out the nature of the solution he had used?



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22. Give the reason why copper is used to make hot water tanks but steel (an alloy of iron) is not.



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