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Answers Key:

2 Marks ANSWER ANY 6

1. (i) Mercury
   ii) Sodium
   (iii) Silver
   (iv) Lead
2. Sodium metal being reactive highly reacts so vigorously with oxygen that it catches fire if kept in open air. Therefore, to protect it from accidental fires, sodium is kept immersed in kerosene oil.
3. (a) Mg_3N_2
   (b) Li_2O
   (c) $AICl_3$
   (d) K_2O
4. Since compound B is used for white washing, the compound B must be calcium hydroxide. When compound B is heated it forms calcium oxide which is compound C. Then the compound A must be calcium.
   A - Calcium Ca; B - Calcium hydroxide $Ca(OH)_2$; C - Calcium oxide CaO.
   Reactions Involved :
   $Ca(s) + 2H_2O \rightarrow Ca(OH)_2(aq) + H_2(g)$ $\quad Ca(OH)_2 \xrightarrow{Heat} CaO + H_2O$
5. (i) Sodium is a highly reactive metal. It can catch fire if kept in open. Hence to protect it and prevent accidental fire, it is stored under kerosene oil.
   (ii) Due to high reactivity of aluminium, a thin layer of aluminium oxide is formed on it. This protective layer of aluminium oxide prevents the metal from further corrosion. Hence, aluminium can be used for making utensils. This process is anodising
6. (i) Ionic Bond
   (ii) High
   (iii) No
   (iv) Yes.
7.

Metals	Non-metals
Metals occur in solid state except Hg	Non-metals occur in solid, liquid or gaseous state.
Metals have high melting point.	Non-metals have low melting point.
Metals are ductile and malleable .	Non-metals are non-ductile and non-malleable.

Multiple Choice Question

8. (c) Conc.HCl : Conc.HNO_3 [3 : 1]
9. (c) (ii) and (iv)
10. (c) A homogeneous mixture
11. (b) (iii) and (iv)
12. (b) Na
13. (d) Zinc amalgam
14. (b) Graphite
15. (c) PVC
16. (b) Bromine
17. (d) X and Yare non-metal and Z is a metal
18. (a) dilute hydrochloric acid
19. (c) Gold