

ii. It is used to produce yellow light in sodium vapour lamp.

iii. It is used as a reducing agent in the extraction of metals like Ti.

Q69. Write down the uses of Calcium.

Ans. Uses of Calcium

i. It is used to remove sulphur from petroleum products.

ii. It is used as reducing agent to produce Cr,U,Zr.

(270. Write down the uses of Magnesium.

Ans. Uses of Magnesium

1. Magnesium is used in flash lights and in fire works.

2. It is used in the manufacture of light alloys.

3. Magnesium ribbon is used in Thermite process to ignite aluminum powder.

4. Magnesium is used as anode for prevention of corrosion.

## Multiple Choice Questions

### Multiple Choice Questions

Put a (V) on the correct answer

1. Metals can form ions carrying charges:

- (a) Uni positive (b) Di positive  
(c) Tri positive (d) All of them

2. Which one of the following metals burn with a brick red flame when heated in air?

- (a) Sodium (b) Magnesium  
(c) Iron (d) Calcium

3. Sodium is extremely reactive metal, but it does not react with:

- (a) Hydrogen (b) Nitrogen  
(c) Sulphur (d) Phosphorus

4. Which one of the following is the lightest and floats on water?

- (a) Calcium (b) Magnesium  
(c) Lithium (d) Sodium

5. Pure alkali metals can be cut simply by knife but iron cannot because of alkali metals have:

- (a) Strong metallic bonding  
(b) Weak metallic bonding  
(c) Non-metallic bonding  
(d) Moderate metallic bonding

6. Which of the following is less malleable?

- (a) Sodium (b) Iron  
(c) Gold (d) Silver

7. Metals lose their electrons easily because:

- (a) They are electronegative  
(b) They have electron affinity  
(c) They are electropositive  
(d) Good conductors of heat

8. Which one of the following is brittle?

- (a) Sodium (b) Aluminum

(c) Selenium (d) Magnesium 9. Which one of the following non-metal is lustrous?

(a) Sulphur (b) Phosphorus

(c) Iodine (d) Carbon 10. Non-metals are generally soft, but which one of the following is extremely hard?

(a) Graphite (b) Phosphorus

(c) Iodine (d) Diamond 11. Which one of the following will not react with dilute HCl?

(a) Sodium (b) Potassium

(c) Calcium (d) Carbon

12. Metals are the elements which

(a) Electropositive character

(b) Electronegative character

(c) Both a & b (d) None of these

13. Which one is very reactive metal?

(a) Potassium (b) Sodium

(c) Calcium (d) All of these

14. Which one is a moderately reactive metal?

(a) Copper (b) Mercury

(c) Silver (d) All of these 15. metal

exists in liquid form at room temperature?

(a) Sodium (b) Potassium

(c) Mercury (d) None of these 16.

Metals are conductor of heat and electricity.

(a) Good (b) Bad

(c) Moderately conductor

(d) All these

17. All metals bear:

(a) Positive charge

(b) Negative charge.

(c) Both a & b

(d) None of these

18. Metals possess

(a) Ionic bond

(b) Covalent bond

(c) Co-ordinate bond

(d) Metallic bond

19. Sodium metal has electrons

(a) 10 (b) 12

(c) 11 (d) 14

Which group of elements has low ionization energies?

(a) Alkali Metals

(b) Alkaline earth metals

(c) Halogens

(d) Noble

1. Density of sodium metal is:

(a) 0.98 gcm<sup>3</sup> (b) 1.74 gcm<sup>3</sup>

(c) 1.55 gcm<sup>-3</sup> (d) 1.60 gcm<sup>-3</sup> 22.

Density of magnesium is:

(a) 0.98 gcm<sup>3</sup> (b) 1.74 gcm<sup>-3</sup>

(c) 1.55 gcm<sup>-3</sup> (d) 1.60 gcm<sup>-3</sup> 23.

Deesity of calcium is:

(a) 0.98 gcm<sup>-3</sup> (b) 1.74 gcm<sup>-3</sup> (c) 1.55 gcm<sup>-3</sup> (d)

1.60 gcm<sup>-3</sup>

24. Melting point of sodium is:

(a) 97 °C (b) 650 °C (c) 851 °C (d) 801 °C

25. Melting point of calcium is:

(a) 97 °C (b) 650 °C

(c) 851 °C (d) 801 °C

26. Boiling point of sodium is:

(a) 883 °C (b) 1105 °C (c) 1494 °C (d) 1500 °C

27. Boiling point of magnesium is:

(a) 880 °C (b) 1105 °C

(C) 1090 °c      (d) 1500 °c

28. Boiling point of calcium  
 (a) 880 °C (b) [ ] 494 OC
29. Flame colour of sodium  
 (a) Golden yellow  
 (b) Brilliant white  
 (c) Brick red  
 (d) Purple
30. The flame colour of magnesium is:  
 (a) Golden yellow  
 (b) Brilliant white  
 (c) Brick Red  
 (d) Purple
31. The flame Color of calcium is:  
 (a) Golden yellow  
 (b) Brilliant white  
 (c) Brick Red  
 (d) Purple
32. The elements in which d-orbital the process of filling constitute of metals called:  
 (a) Alkali Metal (b) Alkaline Earth Metal  
 (c) Transition Metals  
 (d) Noble gases
33. Which metal belongs  
 (a) Copper  
 (c) Gold
34. Which compounds are widely in photography films and preparations?  
 (a) Silver  
 (c) Platinum
35. which of the following metal?  
 (a) Gold  
 (c) Platinum
36. 22 carat gold means that 22 part pure gold is alloyed with 2 parts of (a) Silver (b) Copper  
 (c) Platinum (d) both a & b
37. Platinum alloyed with which metal are used as catalyst in automobiles as catalytic convertor?  
 (a) Palladium (b) Rhodium  
 (c) Gold (d) both a & b
38. Non metals form:  
 (a) Positive ion (b) Negative ion  
 (d) None  
 es are:  
 (c) Neutral
39. Non metallic oxides are:  
 (a) Basic in nature  
 (b) Acidic in nature  
 Amphoteric (b) All
40. Metals oxides are:  
 (a) Basic in nature  
 (b) Acidic in nature  
 (c) Neutral (d) None
- Non-Metals are conductor of heat and electricity:  
 (a) Good (b) bad  
 (c) Moderately (d) None
42. The melting and boiling points of non metals are:  
 (a) High (b) low