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Class: X

**Subject: chemistry** 

Topic: metals and non-metals

No. of Questions: 20 Duration: 60 Min Maximum Marks: 60

### 1. Which of the following is the best electrical conductor?

- (a) Gold
- (b) Silver
- (c) Copper
- (d) Aluminium

Sol: (b) silver is best electrical conductor as it has less resistance

#### 2. Which of the following is NOT Ture for metals?

- (a) Generally, metals are malleable.
- (b) Metals are good conductors of heat.
- (c) Metals are electronegative by nature.
- (d) Metals displace hydrogen gas from dilute acids.

**Sol: (c)** Metals are electropositive by nature

## 3. In general, the number of electrons in the outermost shell of a metal atom is

- (a) 1
- (b) 1 to 3
- (c) 5 to 8
- (d) 8

**Sol:(b)** In case of metal atom it lies between 1 to 3.

# 4. Bauxite is an ore of which metal

- (a) Iron
- (b) aluminium
- (c) copper
- (d) tin

Sol: (b) fact



- 5. Which of the following pairs will give displacement reactions?
  - (a) NaCl solution and copper metal
  - (b) MgCl<sub>2</sub> solution and aluminium metal
  - (c) FeSO<sub>4</sub> solution and silver metal
  - (d) AgNO<sub>3</sub> Solution and copper metal

Sol: (d) AgNO<sub>3</sub> solution with copper metal will form copper nitrate

- 6. 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

Sol: (c) galvanization technique by using Zn coating over Iron.

- 7. 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

Sol: (a) Ca gives CaO which is souble in water and gives slacked lime Ca(OH)<sub>2</sub>

- 8. Food cans are coated with tin and not with zinc because
  - (a) Zinc is costlier than tin
  - (b) Zinc has a higher melting point than tin.
  - (c) Zinc is more reactive than tin
  - (d) Zinc is less reactive than tin

Sol: (c) Zn >Sn in reactivity

- 9. Haematite is an ore of
  - (a) Iron
  - (b) aluminium
  - (c) copper
  - (d) tin

sol: (a) fact

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## 10. What are the constituents of alloy solder?

- (a) Copper, zinc
- (b) Copper, tin
- (c) Lead, Zinc
- (d) Lead, tin

Sol: (d) solder is an alloy of Pb and Sn

#### 11. Which of the is more reactive?

- (a) Hg
- (b) Al
- (c) Ag
- (d) Ca

**Sol: (d)** Ca is alkaline earth metal and most reactive among these.

#### 12. By which reaction metal is obtained from metal oxide?

- (a) Liquefaction
- (b) Reduction
- (c) Calcination
- (d) Roasting

Sol: (b) Reduction

#### 13. Which non-metallic element is in liquid form?

- (a) Carbon
- (b) Hydrogen
- (c) Bromine
- (d) Phosphorus

Sol: (c) fact

## 14. Which of the following non-metal is good conductor of electricity?

- (a) Graphite
- (b) Phosphorus
- (c) Hydrogen
- (d) Bromine

Sol: (a) fact

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15.	Which of the following is not a half-metal?								
	(a)	Silicon,							
	(b)	Boron,							
	(c)	Arsenic,							
	(d)	Chlorine							
	Sol	(d) chlorine is a non-metal							
16.	6. Of these, the most ductile metal is								
	(a)	Al							
	(b)	Au							
	(c)	Cu							
	(d)	Ag							
Answer: (b)									
	Sol	Gold most ductile.							
17.	Of th	nese, the least dense metal is							
	(a)	Hg							
	(b)	Au							
	(c)	Cu							
	(d)	Na							
	Answer: (d)								
Sol: (d) fact									
18.	Of th	nese, th <mark>e m</mark> ost reacti <mark>ve m</mark> etal is							
	(a)	Fe							
	(b)	Zn							
	(c)	Al							
	(d)	K							
	Answer: d								

Sol: (d) Potassium is alkali metal

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19. W	hich of	the f	ollowi	ing is	displace	d by	''Cu'?
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- (a) Fe<sup>2+</sup>
- (b) Ag<sup>+</sup>
- (c) Zn<sup>2+</sup>
- (d) Al<sup>3+</sup>

Answer: b

**Sol: (b)** Cu is more reactive than Ag.

20. Which of the following metals does not displace H2 gas from dilute HCI or dilute H2SO4?

- (a) Mg
- (b) Cu
- (c) Zn
- (d) Al

Answer: b

Sol: (b) Reduction Potential is above Hydrogen. So it can't replace it.