

KNOWLEDGE HORIZON CLASSES

Test Series

- Q1.** What happens when dilute hydrochloric acid is added to iron filings?
- Hydrogen gas and iron chloride are produced.
 - Chlorine gas and iron hydroxide are produced.
 - No reaction takes place.
 - Iron salt and water are produced.
- Q2.** Which is the correct formula of rust?
- Fe_2O_3
 - Fe_3O_4
 - $\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$
 - FeO
- Q3.** When carbon dioxide is passed through lime water
- Calcium hydroxide is formed
 - White precipitate is formed
 - white precipitate of CaO is formed
 - colour of lime water disappears
- Q4.** Which of the following statements is incorrect?
- Metals have luster
 - All metal oxides are basic in nature
 - Metals have 1, 2 or 3 electrons in the outermost shell.
 - Metals are malleable
- Q5.** The reducing agent used in the blast furnace to reduce Fe_2O_3 to Fe is
- Coke
 - Carbon
 - Lime stone
 - Carbon monoxide
- Q6.** Which one of the following is not allotrope of carbon?
- Diamond
 - Graphite
 - Quartz
 - Buckminsterfullerene

- Q7.** Wine basically contains
- Ethyl alcohol
 - Methyl alcohol
 - Propyl alcohol
 - Acetone
- Q8.** Dobereiner's triad is
- Cl, Br, I
 - Li, Be, B
 - C, N, O
 - Li, Na, Ca
- Q9.** The electronic configuration of an element is 2, 8, 2 this element belongs to
- 1st group
 - 2nd group
 - 3rd group
 - 4th group
- Q10.** The atomic size of elements across the period
- Increases
 - Decreases
 - First decreases then increases
 - Remains intact
- Q11.** Choose the correct answer.
 $\text{Fe}_2\text{O}_3 + 2\text{Al} \rightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$
The above reaction is an example of:
- Combination reaction
 - Double displacement reaction
 - Decomposition reaction
 - Displacement reaction
- Q12.** Which of the statements about the reaction below are incorrect?
 $2\text{PbO}(\text{s}) + \text{C}(\text{s}) \rightarrow 2\text{Pb}(\text{s}) + \text{CO}_2(\text{g})$
- Lead is getting reduced.
 - Carbon dioxide is getting oxidized.
 - Carbon is getting oxidized.
 - Lead oxide is getting reduced.
- Q13.** Which is the correct formula of sodium bicarbonate?
- NaHCO_3
 - Na_2CO_3
 - NaCl
 - Na_2SO_4

- Q14.** When a few drops of phenolphthalein are added to a dilute solution of hydrochloric acid, it remains colourless. What will be the colour of the final mixture when excess of NaOH is added to it?
- (i) Red
 - (ii) Blue
 - (iii) Orange
 - (iv) Pink
- Q15.** An atom X has seven valence electrons and another atom Y has two valence electrons. Predict the type of bond formed between them.
- (i) Coordinate bond
 - (ii) Ionic bond
 - (iii) None of the above
 - (iv) Covalent bond
- Q16.** Which one of the following is most ductile?
- (i) Aluminium
 - (ii) Copper
 - (iii) Sodium
 - (iv) Gold
- Q17.** A naturally occurring substance from which a metal can be profitably extracted is called
- (i) mineral
 - (ii) gangue
 - (iii) ore
 - (iv) flux.
- Q18.** Compounds of carbon which are linked by only single bonds between carbon and hydrogen atoms are known as
- (i) Unsaturated hydrocarbons.
 - (ii) Aromatic hydrocarbon.
 - (iii) Heterocyclic hydrocarbons.
 - (iv) Saturated hydrocarbons.
- Q19.** The octave rule was given by
- (i) Neel Bohr
 - (ii) Mendeleev
 - (iii) Mosely
 - (iv) Newland
- Q20.** The number of periods in modern periodic table is
- (i) 5
 - (ii) 6
 - (iii) 7
 - (iv) 8