

## Chemistry

1 :- kaolin is an ore of

**CORRECT ANSWER =**  
magnesium

2 :- the enzyme used in the conversion of starch to maltose is

**CORRECT ANSWER =**  
invertase

3 :- a molecule of ozone is

**CORRECT ANSWER =**  
triatomic

4 :- in the reaction above an increase in temperature will shift the equilibrium position to the

**CORRECT ANSWER =**  
left and increase the equilibrium constant

5 :- in the reaction above X is

**CORRECT ANSWER =**  
ammonia

6 :- if 0.25g of calcium trioxocarbonate(IV) is added to excess dilute hydrochloric acid, it takes 5 seconds for carbon(IV)oxide to evolve. the rate of reaction is

**CORRECT ANSWER =**  
0.05

7 :- the separation technique suitable for the separation of soluble solids from a solution are

**CORRECT ANSWER =**  
crystallization and evaporation

8 :- silver and gold are not extracted by electrolysis or chemical reaction because

**CORRECT ANSWER =**  
they occur in free state

9 :- 12.50g of potassium chloride is dissolved in 25.0g of water at 25°C. calculate its concentration in g dm<sup>-3</sup>

**CORRECT ANSWER =**  
500

10 :- which of the following is correct when sodium hydroxide pellet is dissolved in water

**CORRECT ANSWER =**  
entropy increases and enthalpy decreases

11 :- in the reaction above the general molecular formula is X is

**CORRECT ANSWER =**  
 $C_nH_{2n+1}COOC_nH_{2n+1}$

12 :- the organic compound that undergoes addition reaction possess the general molecular formula

**CORRECT ANSWER =**  
 $C_nH_{2n-2}$

13 :- sulphur cannot be used

**CORRECT ANSWER =**  
as drying agent

14 :- the source of water with the highest concentration of calcium ion is

**CORRECT ANSWER =**  
well water

15 :- the oxidation of a primary alkanol will produce an

**CORRECT ANSWER =**  
alkanol

16 :- petrol quality is evaluated by

**CORRECT ANSWER =**  
octane rating

17 :- the color of methyl orange indicator in aqueous ammonia solution is

**CORRECT ANSWER =**  
yellow

18 :- a gas occupies 2.0 dm<sup>3</sup> at 5.0 atm and 25°C. calculate the amount in moles present

**CORRECT ANSWER =**  
0.409

19 :- an ion can be defined as

**CORRECT ANSWER =**  
any atom or group of atoms which possesses an electric charge

20 :- in the laboratory preparation of oxygen from potassium trioxochlorate(V), the catalyst employed is

**CORRECT ANSWER =**  
MnO<sub>2</sub>

21 :- fused calcium chloride is usually employed

**CORRECT ANSWER =**  
as a drying agent

22 :- the hydrolysis of protein with sodium hydroxide produces

**CORRECT ANSWER =**  
amines

23 :- the most reactive component of air is

**CORRECT ANSWER =**  
oxygen

24 :- which of the following electrolytes will have the greatest conductance /

**CORRECT ANSWER =**  
calcium tetraoxosulphate(VI) solution

25 :- the electron configuration of an inert gas is

**CORRECT ANSWER =**  
1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>6</sup>

26 :- the reaction of 2 propanone with LiAlH<sub>4</sub> will produce

**CORRECT ANSWER =**  
2-propanal

27 :- when an electric current is passed through an electrolyte the

**CORRECT ANSWER =**  
ions lose their random movement

28 :- in the reaction above the oxidation state of oxygen changes

**CORRECT ANSWER =**

0 to -2

29 :- an example of sols is

**CORRECT ANSWER =**

glue

30 :- the chemical reaction that occur when magnesium ribbons burns in air is

**CORRECT ANSWER =**

$2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$

31 :- chlorine is manufactured from brine by

**CORRECT ANSWER =**

electrolysis

32 :- in the solvay process the raw materials that is regenerated is

**CORRECT ANSWER =**

$\text{NH}_3$

33 :- the iupac name of the structure above is

**CORRECT ANSWER =**

3-methylpentane

34 :- the primary pollutant that give rise to greenhouse effect

**CORRECT ANSWER =**

$\text{NO}$

35 :- an example of a secondary amine is

**CORRECT ANSWER =**

$(\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2)_2\text{NH}$

36 :- the caption with the greatest tendency to be discharged in an electrolytic proces is

**CORRECT ANSWER =**

$\text{Mg}^{2+}$

37 :- which of the following is not correct about gas molecules

**CORRECT ANSWER =**

the forces of attraction between the gas molecules are high

38 :- an example op thermosetting plastic is

**CORRECT ANSWER =**

perspex

39 :- the transition metal that will not exhibit paramagnetism is

**CORRECT ANSWER =**

Zn

40 :- the valency of sulphur  $\text{H}_2\text{SO}_4$  is

**CORRECT ANSWER =**

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