

Chm 7am Wed

1 :- liquid nitrogen can be used as

CORRECT ANSWER =

rocket fuel

2 :- what volume of oxygen at stp is required to burn 60g of carbon completely

CORRECT ANSWER =

112.0DM3

3 :- when a crystal was added to its solution no further dissolution was observed.this showed that the solution was

CORRECT ANSWER =

saturated

4 :- which of the following statement is peculiar to isotopes

CORRECT ANSWER =

they have different numbers of electrons

5 :- in the reaction above the oxidizing agent is

CORRECT ANSWER =

2KI

6 :- the diagram above represents

CORRECT ANSWER =

p orbital

7 :- tin can be extracted from

CORRECT ANSWER =

ethanol

8 :- the alkanol obtained from the destrurctive distillation of wood is

CORRECT ANSWER =

297.3cm

9 :- when magnesium reacts with tetraoxosulphate(VI)acid 312cm³ of hydrogen gas was was collected at 28C and 750mmhg.calculate the volume of hydrogen gas at stp

CORRECT ANSWER =

10 :- the basicity of CH₃COOH is

CORRECT ANSWER =

1

11 :- when a compound Q with molecular formula C₂H₄O₂ reacts with excess methanol in the presence of a catalyst, a sweet smelling substance is produced.the structural formula of Q is

CORRECT ANSWER =

12 :- how many faraday will be needed to deposit 9.6g of copper during the electrolysis of a solution of a copper salt

CORRECT ANSWER =

0.3F

13 :- the derivative of methane that can be employed in dry cleaning is

CORRECT ANSWER =

CCl_4

14 :- the metal used in the construction of bridges is

CORRECT ANSWER =

iron

15 :- when a compound Q with molecular formula $\text{C}_2\text{H}_4\text{O}_2$ reacts with excess methanol in the presence of a catalyst, a sweet smelling substance is produced. the reaction between Q and methanol is

CORRECT ANSWER =

esterification

16 :- the alkali majorly used for making liquid soap is

CORRECT ANSWER =

CALCIUM HYDROXIDE

17 :- in electroplating iron with zinc the cathode is iron because

CORRECT ANSWER =

Zn^{2+} will be discharged and deposited at the cathode

18 :- which of the following is likely to be responsible for flavor of fruits and smell of flowers?

CORRECT ANSWER =

$\text{CH}_3\text{COOCH}_3$

19 :- the main product formed when excess acidified $\text{K}_2\text{Cr}_2\text{O}_7$ reacts with propan-1-ol is

CORRECT ANSWER =

propanoic acid

20 :- calculate the pH of 0.001mol/dm^3 HCL?

CORRECT ANSWER =

3

21 :- "plaster of paris" is composed of

CORRECT ANSWER =

crystallization

22 :- the separation technique that improves on the purity of a compound is

CORRECT ANSWER =

23 :- an example of naturally distilled water is

CORRECT ANSWER =

spring water

24 :- when elements 12X and 7Y combine chemically the formula of the compound formed

CORRECT ANSWER =

XY₂

25 :- the dehydration of ethanol produces

CORRECT ANSWER =

ethene

26 :- in the diagram above what point indicates the end of a chemical reaction?

CORRECT ANSWER =

R

27 :- the oxygen in the atmosphere is kept fairly constant by the process of

CORRECT ANSWER =

aeration

28 :- elements belonging to the same group in the periodic table which exist as diatomic molecules and are good oxidizing agents are referred to as

CORRECT ANSWER =

halogen

29 :- the mixture of gases used by divers is oxygen and

CORRECT ANSWER =

>O

30 :- in the endothermic reaction which involves the loss in entropy the value of change in G will be

CORRECT ANSWER =

31 :- at what temperature is the solubility of J and M the same

CORRECT ANSWER =

28 degrees

32 :- the process in which alkanes are converted to branched and cyclic hydrocarbons is

CORRECT ANSWER =

cracking

33 :- if 0.5 moles of a monoalkanoic acid weighed 44g, determine the molecular formula

CORRECT ANSWER =

C₃H₇COOH

34 :- CH₃C(CH₃)₂CH₂Cl IS

CORRECT ANSWER =

1-chloro-2,2-dimethylpropane

35 :- THE MAXIMUM NUMBER OF ELECTRONS THAT CAN BE ACCOMODATED IN THE SHELL HAVING THE PRINCIPAL QUANTUM NUMBER 4 IS

CORRECT ANSWER =

32

36 :- which of the following reactions will be feasible in water ?

CORRECT ANSWER =

Ca+2H₂O----->Ca(OH)₂+H₂

37 :- the pollutant released in a large quantity from motor vehicle exhaust is

CORRECT ANSWER =

CARBON(II)OXIDE

38 :- in the reaction above the equilibrium constant is

CORRECT ANSWER =

$\frac{[NH_3]^2}{[N_2][H_2]^3}$

39 :- the substance that rekindles a glowing splinter like oxygen is

CORRECT ANSWER =

N₂O

40 :- alkali are not usually stored in aluminium containers because aluminium is

CORRECT ANSWER =

AMPHOTERIC