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**RAVI MATHS TUITION CENTER, NEAR VILLIVAKKAM RLY STATION,
CHENNAI – 82. WHATSAPP - 8056206308**

Metallurgy TEST

12th Standard

Chemistry

Exam Time : 01:40:00 Hrs

Total Marks : 100

(Multiple Choice Question)

- Bauxite has the composition
(a) Al_2O_3 (b) $Al_2O_3 \cdot nH_2O$ (c) $Fe_2O_3 \cdot 2H_2O$ (d) None of these
- Roasting of sulphide ore gives the gas (A). (A) is a colourless gas. Aqueous solution of (A) is acidic. The gas (A) is
(a) CO_2 (b) SO_3 (c) SO_2 (d) H_2S
- Which one of the following reaction represents calcinations?
(a) $2Zn + O_2 \rightarrow 2ZnO$ (b) $2ZnS + 3O_2 \rightarrow 2ZnS + 3O_2$ (c) $2ZnO_2 \rightarrow 2ZnO + 2SO_2$ (d) $MgCO_3 \rightarrow MgO + CO_2$
(a) and (c)
- The metal oxide which cannot be reduced to metal by carbon is
(a) PbO (b) Al_2O_3 (c) ZnO (d) FeO
- Which of the metal is extracted by Hall-Heroult process?
(a) Al (b) Ni (c) Cu (d) Zn
- Which of the following statements, about the advantage of roasting of sulphide ore before reduction is not true?
(a) ΔG_f^0 of sulphide is greater than those for CS_2 and H_2S (b) ΔG_r^0 is negative for roasting of sulphide ore to oxide (c) Roasting of the sulphide to its oxide is thermodynamically feasible (d) Carbon and hydrogen are suitable reducing agents for metal sulphides
- Match items in column - I with the items of column - II and assign the correct code.

Column-I	Column-II
A Cyanide process	(i) Ultrapure Ge
B Froth floatation process	(ii) Dressing of ZnS
C Electrolytic reduction	(iii) Extraction of Al
D Zone refining	(iv) Extraction of Au
	(v) Purification of Ni

(a)

A	B	C	D

(b)

A	B	C	D
(i)	(ii)	(iii)	(iv)

(c)

A	B	C	D
(iii)	(iv)	(v)	(i)

(d)

A	B	C	D
(ii)	(iii)	(i)	(v)

WHATSAPP NO - 8056206308

- Wolframite ore is separated from tinstone by the process of
(a) Smelting (b) Calcination (c) Roasting (d) Electromagnetic separation
- Which one of the following is not feasible
(a) $Zn(s) + Cu^{2+}(aq) \rightarrow Cu(s) + Zn^{2+}(aq)$ (b) $Cu(s) + Zn^{2+}(aq) \rightarrow Zn(s) + Cu^{2+}(aq)$ (c) $Cu(s) + 2Ag^+(aq) \rightarrow Ag(s)$
- Electrochemical process is used to extract
(a) Iron (b) Lead (c) Sodium (d) silver
- Flux is a substance which is used to convert
(a) Mineral into silicate (b) Infusible impurities to soluble impurities (c) Soluble impurities to infusible impurities (d) All of these
- Which one of the following ores is best concentrated by froth - floatation method?
(a) Magnetite (b) Hematite (c) Galena (d) Cassiterite
- In the extraction of aluminium from alumina by electrolysis, cryolite is added to
(a) Lower the melting point of alumina (b) Remove impurities from alumina (c) Decrease the electrical conductivity (d) Increase the rate of reduction
- Zinc is obtained from ZnO by
(a) Carbon reduction (b) Reduction using silver (c) Electrochemical process (d) Acid leaching
- Cupellation is a process used for the refining of
(a) Silver (b) Lead (c) Copper (d) iron

- 16) Extraction of gold and silver involves leaching with cyanide ion. silver is later recovered by (NEET-2017)
 (a) Distillation (b) Zone refining (c) Displacement with zinc (d) liquation
- 17) Considering Ellingham diagram, which of the following metals can be used to reduce alumina? (NEET-2018)
 (a) Fe (b) Cu (c) Mg (d) Zn
- 18) The following set of reactions are used in refining Zirconium
 $(\text{impure}) + 2\text{I}_2 \xrightarrow{523\text{K}} \text{ZrI}_4$
 $\text{ZrI}_4 \xrightarrow{1800\text{K}} \text{Zr}(\text{pure}) + 2\text{I}_2$ This method is known as
 (a) Liquation (b) van Arkel process (c) Zone refining (d) Mond's process
- 19) Which of the following is used for concentrating ore in metallurgy?
 (a) Leaching (b) Roasting (c) Froth floatation (d) Both (a) and (c)
- 20) The incorrect statement among the following is
 (a) Nickel is refined by Mond's process (b) Titanium is refined by Van Arkel's process (c) Zinc blende is concentrated by froth floatation (d) In the metallurgy of gold, the metal is leached with dilute sodium chloride solution
- 21) In the electrolytic refining of copper, which one of the following is used as anode?
 (a) Pure copper (b) Impure copper (c) Carbon rod (d) Platinum electrode
- 22) Which of the following plot gives Ellingham diagram
 (a) ΔS vs T (b) ΔG^0 vs T (c) ΔG^0 vs $\frac{1}{T}$ (d) ΔG^0 vs T^2
- 23) In the Ellingham diagram, for the formation of carbon monoxide initially $\left(\frac{\Delta T}{\Delta G^0}\right)$ is positive, after 700 °C, $\left(\frac{\Delta T}{\Delta G^0}\right)$ is negative
 (a) $\left(\frac{\Delta S^0}{\Delta T}\right)$ is positive (b) $\left(\frac{\Delta G^0}{\Delta T}\right)$ is positive (c) $\left(\frac{\Delta G^0}{\Delta T}\right)$ is negative (d) $\left(\frac{\Delta T}{\Delta G^0}\right)$ is negative
- 24) Which of the following reduction is not thermodynamically feasible?
 (a) $\text{Cr}_2\text{O}_3 + 2\text{Al} \longrightarrow \text{Al}_2\text{O}_3 + 2\text{Cr}$ (b) $\text{Al}_2\text{O}_3 + 2\text{Cr} \longrightarrow \text{Cr}_2\text{O}_3 + 2\text{Al}$ (c) $3\text{TiO}_2 + 4\text{Al} \longrightarrow 2\text{Al}_2\text{O}_3 + 3\text{Ti}$ (d) none of these
- 25) Which of the following is not true with respect to Ellingham diagram?
 (a) Free energy changes follow a straight line. Deviation occurs when there is a phase change. (b) The graph for the formation of CO_2 is a straight line almost parallel to free energy axis. (c) Negative slope of CO shows that it becomes more stable with increase in temperature. (d) Positive slope of metal oxides shows that their stabilities decrease with increase in temperature
- 26) Which metal is used for extraction of Au and Ag and also for galvanisation of iron objects?
 (a) Mg (b) Zn (c) Cr (d) Co
- 27) Which of the following is not a mineral of aluminium?
 (a) Bauxite (b) Cryolite (c) China clay (d) Malachite
- 28) Which of the following is commonly used to produce foam in froth floatation process?
 (a) Pine oil (b) Cresol (c) NaCN (d) Xanthate
- 29) Among the following, one does not belong to calcination, Pick the odd one out.
 (a) $\text{PbCO}_3 \xrightarrow{\Delta} \text{PbO} + \text{CO}_2 \uparrow$ (b) $\text{CaCO}_3 \xrightarrow{\Delta} \text{CaO} + \text{CO}_2 \uparrow$ (c) $\text{PbSO}_4 \xrightarrow{\Delta} \text{PbO} + 2\text{SO}_2 \uparrow$ (d) $\text{ZnCO}_3 \xrightarrow{\Delta} \text{ZnO} + \text{CO}_2 \uparrow$
- 30) Which of the following is incorrect with respect to metallurgy of iron in the blast furnace?
 (a) Zone of combustion : $\text{C} + \text{O}_2 \rightarrow \text{CO}_2$ (b) Zone of heat absorption : $\text{CO}_2 \rightarrow \text{C} + \text{O}_2$ (c) Zone of slag formation : $\text{CaO} + \text{SiO}_2 \rightarrow \text{CaSiO}_3$ (d) Zone of reduction : $\text{Fe}_2\text{O}_3 + 3\text{C} \rightarrow 3\text{CO} + 2\text{Fe}$
- 31) Name the process by which elements such as germanium, silicon and gallium are refined.
 (a) Vapour phase method (b) Electrolytic refining (c) Zone refining (d) Van-Arkel method

**WHATSAPP NO -
8056206308**

- 32) Which of the following will give respective metal by self reduction?
 (a) Galena (Pbs) (b) HgS (c) ZnS (d) Both (a) & (b)
- 33) In the extraction of copper from its sulphide ore, the metal is finally obtained by the reduction of cuprous oxide with
 (a) Iron sulphide (b) Carbon (c) Copper (I) (d) Sulphur
 (FeS) monoxide (CO) sulphide (Cu₂S) dioxide (SO₂)
- 34) Which among the following reaction represents the formation of slag?
 (a) $CaO_{(s)} + SiO_{2(s)} \longrightarrow CaSiO_{3(s)}$ (b) $2C_{(s)} + O_{2(g)} \longrightarrow 2CO_{(g)}$ (c) $Fe_2O_3 + 3CO_{(g)} \longrightarrow 2Fe_{(l)} + 3CO_{2(g)}$ (d) $CaCO_{3(g)} \longrightarrow CaO_{(s)} + CO_{2(g)}$
- 35) Which one of the following element is present as a~ impurity in pig iron?
 (a) Phosphorus (b) Manganese (c) Carbon (d) Silicon
- 36) Which of the following mineral contains calcium as well as magnesium?
 (a) Zinc bien de (b) Aragonite (c) Dolomite (d) Carnalite
- 37) In the froth-floatation process the collectors such as pine oil and xanthates, etc enhance.
 (a) Non-wettability of the mineral particles in froth. (b) Non-wettability of the mineral particles in water. (c) Non-wettability of the gangue particles in froth. (d) Non-wettability of the gangue particles in water.
- 38) Concentration of copper glance is done by
 (a) leaching (b) magnetic separation (c) froth flotation (d) hydraulic washing
- 39) Identify the decreasing order of carbon content in different forms of iron
 (a) Wrought iron > Cast iron > Pig iron > Wrought iron (b) Cast iron > Wrought iron > Pig iron > Wrought iron (c) Pig iron > Cast iron > Wrought iron > Pig iron (d) Cast iron > Wrought iron > Pig iron > Wrought iron
- 40) Sodium, magnesium and aluminum can be obtained from their ore by
 (a) electro metallurgy (b) pyro metallurgy (c) hydro metallurgy (d) smelting
- 41) The blistered appearance of Cu obtained from the reverberatory furnace is due to evolution of
 (a) CO₂ gas (b) SO₂ gas (c) NO₂ (d) Due to evaporation of volatile materials
- 42) Identify the halide ore among the following
 (a) Epsom Salt (b) Pyrolusite (c) Anglesite (d) Rock Salt
- 43) Identify the metal that occurs in free state
 (a) Al (b) Au (c) Mg (d) Ca
- 44) $2PbS + 3O_2 \longrightarrow 2PbO + 2SO_2$ Name the process
 (a) Roasting (b) Calcination (c) Smelting (d) Leaching
- 45) The process of heating of copper pyrites to remove sulphur is called
 (a) froth flotation (b) roasting (c) calcination (d) smelting
- 46) ΔG° vs T plot in the Ellingham's diagram slopes downward the reaction.
 (a) $Mg + \frac{1}{2}O_2 \longrightarrow MgO$ (b) $C + \frac{1}{2}O_2 \longrightarrow CO$ (c) $2Ag + \frac{1}{2}O_2 \longrightarrow Ag_2O$ (d) $2Ag + \frac{1}{2}O_2 \longrightarrow Ag_2O$
- 47) Pick out the alloy that contains a non-metal as a constituent in it
 (a) Brass (b) Bronze (c) Steel (d) Invar
- 48) Ignition mixture used in aluminothermite process is
 (a) Cr + Al₂O₃ (b) Mg + BaO₂ (c) Al + Cr₂O₃ (d) Ba+MgO
- 49) Malachite has_____ composition.
 (a) 2CuCO₃.Cu(OH)₂ (b) 2CuCO₃.Cu(OH)₂ (c) Cu₂O (d) Cu₂S
- 50) Zinc blende is_____
 (a) ZnS (b) PbS (c) Ag₂S (d) Cu₂S
- 51) In acid leaching process, the insoluble sulphide is converted into soluble sulphate and elemental_____
 (a) carbon (b) lead (c) sulphur (d) zinc
- 52) Sulphide ore is converted to oxide form by using the process_____
 (a) Calcination (b) Roasting (c) Smelting (d) Leavhing
- 53) Magnetic separation it is based on the difference in the_____ of the ore and the impurities.
 (a) magnetic properties (b) chemical properties (c) physical properties (d) melting point
- 54) Zinc is extracted from Zinc blende by_____
 (a) Carbon reduction process (b) Nitrogen reduction process (c) Oxygen reduction process (d) All of these
- 55) $ZnS + 3O_2 \xrightarrow{\Delta} 2ZnO + 2SO_2 \uparrow$. The above equation is an example for_____.

**WHATSAPP NO -
8056206308**

- (a) calcination (b) reduction (c) roasting (d) leaching
- 56) Gibb's free energy is given by _____
 (a) $\Delta G^0 = -nFE^0$ (b) $\Delta G^0 = nF$ (c) $\Delta G^0 = nFE^0$ (d) $\Delta E^0 = -nFG^0$
- 57) $\text{Na}[\text{Ag}(\text{CN})_2]$ is _____.
 (a) Sodium aurocyanide (b) Sodium meta aluminate (c) Aluminosilicateargentate (d) Sodium dicyano
- 58) $\text{Zn}_{(s)} + 2[\text{Au}(\text{CN})_2]_{(aq)}^- \longrightarrow [\text{Zn}(\text{CN})_4]_{(aq)}^{2-} + 2\text{Au}_{(s)}$ In the above equation the oxidation state of metallic gold is _____.
 (a) 1 (b) 0 (c) +2 (d) -2
- 59) Semiconductors are purified by _____ method.
 (a) Zone refining (b) Electrolytic refining (c) Mond's process (d) Beisemerisation
- 60) Magnesite is _____.
 (a) Magnesium oxide (b) Magnesium carbonate (c) Magnesium sulphate (d) Magnesium chloride
- 61) The following set of reaction is used for refining titanium. This method is known as _____.
 $\text{Ti}_{(g)} + 2\text{I}_{2(s)} \longrightarrow \text{TiI}_{4(\text{vapour})}$
 $\text{TiI}_{4(\text{vapour})} \longrightarrow \text{Ti}_{(g)} + 2\text{I}_{2(s)}$
 (a) Hall Herold process (b) Mond process (c) Van-Arkel process (d) Alumino thermic process
- 62) In the metallurgy of iron) limestone is added to coke. Which acts as a _____.
 (a) Reducing agent (b) Oxidising agent (c) Slag (d) Flux
- 63) A mixture containing sulphides of copper and iron is called _____.
 (a) mineral (b) ore (c) matte (d) matrix
- 64) The percentage of carbon in high carbon steel is _____.
 (a) 0.5 - 1% (b) 0.15 - 1.5% (c) 0.15 - 1.5% (d) 0.15 - 0.3%
- 65) Froth floatation process is suitable for concentrating _____ ores.
 (a) oxide (b) carbonate (c) sulphide (d) halide
- 66) Steel is an alloy of _____.
 (a) iron and carbon (b) iron and calcium (c) copper and carbon (d) copper and iron
- 67) Metal oxide is converted into metal by the: _____ process.
 (a) Calcination (b) roasting (c) smelting (d) beesemerisation
- 68) In the thermite process _____ is used as a reducing agent
 (a) Al (b) CO (c) C (d) CO_2
- 69) Galena is _____.
 (a) PbS (b) ZnS (c) Ag_2S (d) FeS_2
- 70) $\text{HgS}_{(s)} + \text{O}_{2(g)} \longrightarrow \text{Hg}_{(l)} + \text{SO}_2 \uparrow$ The above reaction is an example of _____ reduction.
 (a) metal (b) hydrogen (c) carbon (d) auto
- 71) In Hall-Herold process _____ act as an, anode.
 (a) Carbon blocks (b) hydrogen (c) copper rods (d) Zinc rods
- One or Two Words / Correct Statement
- 72) I. All ores are minerals
 II. All minerals are not ores.
 III. Aluminium can be extracted from bauxite.
 IV. Aluminium can be extracted from china clay
 a) Only I
 b) Only II
 c) III & IV
 d) I, II & III
- 73) I. Copper is the first metal used by the human
 II. Aluminium is used in galvanising metals
 III. Aluminium is a good conductor of electricity
 IV. Magnets can be made from iron.
 a) Only I
 b) Only II
 c) I, III & IV
 d) III & IV
- 74) I. Ellingham diagram helps to select a suitable reducing agent
 II. Magnesite is calcinated to obtain magnesia.
 III. Calcination is a process of cooling substances.
 IV. Sulphur dioxide is harmful to the environment.

WHATSAPP NO - 8056206308

- a) I, II & IV
b) Only II
c) Only I
d) III & IV
- 75) I. Froth flotation is used to concentrate sulphide ores.
II. Magnetic separation is applicable for ferromagnetic ores.
III. Roasting method used to sulphide ores to oxides
IV. Magnetic separation is used to concentrate heavy oxide ores.
a) III & IV
b) Only II
c) Only I
d) I, II & III
- 76) I. Ores are associated with non-metallic impurities
II. Ores are associated with rocky materials
III. Removal of impurities is known as concentration of ore.
IV. Ellingham diagram shows the stability of different metal oxides.
a) I, II, III & IV
b) Only II
c) Only I
d) III & IV
- 77) Identify the correct statement(s) with respect to the following reaction.

$$2Na[Al(OH)_4]_{(aq)} + CO_{2(g)} \longrightarrow Al_2O_3 \cdot xH_2O_{(g)} + 2NaHCO_{3(aq)}$$
 (i) CO_2 is acting as a reducing agent.
 (ii) The solution is neutralised by passing CO_2 gas to form hydrates Al_2O_3 precipitate.
 (iii) Insoluble sulphate is converted into soluble sulphate.
 (iv) The precipitate is filtered off and heated around 1670 K to get pure Alumina.
 (a) only (ii)
 (b) only (iv)
 (c) both (ii) & (iv)
 (d) both (i) and (iii)
- 78) Identify the correct statement with respect to the following reaction

$$Zn_{(g)} + 2[Au(CN)_2]_{(aq)}^- \longrightarrow [Zn(CN)_4]_{(aq)}^{2-} + 2Au_{(s)}$$
 a) The above reaction takes place in extraction of zinc.
 b) Gold is reduced to its elemental state
 c) The process is called ammonia leaching.
 d) The above reaction is an example of cyanide leaching.
 a) III & IV
 c) Only I
 b) II & IV
 d) I, II, III & IV

WHATSAPP NO - 8056206308

(Assertion and reason)

- 79) **Assertion** : Aluminium is used in the, design of chemical reactors, : medical equipments, , refrigeration units and gas' pipelines.
Reason : Aluminium shows high resistance to corrosion
 (a) Both (A) and (R) are true and (R) is the correct explanation of (A)
 (b) Both (A) and (R) are true and (R) is not the correct explanation of (A).
 (c) (A) true but (R) false
 (d) Both (A) and (R) are false.
- 80) **Assertion(A)** : Metallic zinc is used in galvanising metals such as iron and steel.
Reason (R) : Zinc is also used to produce die castings
 a) Both (A) and (R) are true and (R) is the correct explanation of (A).
 b) Both (A) and (R) are true and (R) is not the correct explanation of (A).
 c) (A) true but (R) false.
 d) Both (A) and (R) are false.
- 81) **Assertion(A)** : Zone refining is carried out in an inert gas atmosphere
Reason (R) : The metal is treated with a suitable reagent which can form a volatile compound with the metal.
 a) Both (A) and (R) are true and (R) is the correct explanation of (A).
 b) Both (A) and (R) are true and (R) is not the correct explanation of (A).
 c) (A) true but (R) false.
 d) Both (A) and (R) are false

- 82) **Assertion** :Cuprite is concentrated by froth floatation process.
Reason :Cuprite is the sulphide ore
a) Both assertion and reason are true and the reason is the correct explanation of the assertion.
b) Both assertion and reason are true but the reason is not the correct explanation of the assertion.
c) Assertion is true, but reason is false.
d) Both assertion and reason are false
- 83) **Assertion** :Calamine and Dolomite are the Carbonate ores.
Reason :Calamine is ZnCO_3 whereas dolomite is $\text{MgCO}_3 \cdot \text{ZnCO}_3$
a) Both assertion and reason are true and the reason is the correct explanation of the assertion.
b) Both assertion and reason are true but the reason is not the correct explanation of the assertion.
c) Assertion is true, but reason is false.
d) Both assertion and reason are false
- 84) **Assertion** :Roasting process is involved in the metallurgy of Cu from malachite ore.
Reason :Roasting is the process of heating the ore in the absence of air.
a) Both assertion and reason are true and the reason is the correct explanation of the assertion.
b) Both assertion and reason are true but the reason is not the correct explanation of the assertion.
c) Assertion is true, but reason is false.
d) Both assertion and reason are false.
- 85) **Assertion** : Metallurgy of Ag from argentite is known as hydro-metallurgy.
Reason :Argentite is Ag_2S .
a) Both assertion and reason are true and the reason is the correct explanation of the assertion.
b) Both assertion and reason are true but the reason is not the correct explanation of the assertion.
c) Assertion is true, but reason is false.
d) Both assertion and reason are false
- 86) **Assertion** :In the manufacturing of iron from hematite, silicon dioxide is added as flux
Reason :Lime stone is used as acidic flux in many case
a) Both assertion and reason are true and the reason is the correct explanation of the assertion.
b) Both assertion and reason are true but the reason is not the correct explanation of the assertion.
c) Assertion is true, but reason is false.
d) Both assertion and reason are false
- 87) **Assertion** :Wrought iron is purest form of iron with respect to other forms.
Reason :It has less than 0.5% carbon.
a) Both assertion and reason are true and the reason is the correct explanation of the assertion.
b) Both assertion and reason are true but the reason is not the correct explanation of the assertion.
c) Assertion is true, but reason is false.
d) Both assertion and reason are false.
- 88) **Assertion** :Aluminium metal is used as a reducing agent for the extraction of metals.
Reason :Aluminium has great affinity for oxygen.
a) Both assertion and reason are true and the reason is the correct explanation of the assertion.
b) Both assertion and reason are true but the reason is not the correct explanation of the assertion.
c) Assertion is true, but reason is false.
d) Both assertion and reason are false
- 89) **Assertion** :Carbon is used in blast furnace for reduction of Fe_2O_3
Reason :The gangue present is silica which is acidic in nature.
a) Both assertion and reason are true and the reason is the correct explanation of the assertion.
b) Both assertion and reason are true but the reason is not the correct

WHATSAPP NO - 8056206308

explanation of the assertion.

c) Assertion is true, but reason is false.

d) Both assertion and reason are false

90) **Assertion** :Ti can be purified by van arkel process

Reason : TiI_4 is a volatile compound which decomposes at a high temperature.

a) Both assertion and reason are true and the reason is the correct explanation of the assertion.

b) Both assertion and reason are true but the reason is not the correct explanation of the assertion.

c) Assertion is true, but reason is false.

d) Both assertion and reason are false

91) **Assertion** :Aluminothemic process is the extraction of chromium from I chromic oxide.

Reason : Alumina has a high melting point.

a) Both assertion and reason are true and the reason is the correct explanation of the assertion.

b) Both assertion and reason are true but the reason is not the correct explanation of the assertion.

c) Assertion is true, but reason is false.

d) Both assertion and reason are false.

92) **Assertion** :A dilute solution of NaCN is used for leaching ores of silver and gold.

Reason : Impurities present in these ores dissolve in NaCN

a) Both assertion and reason are true and the reason is the correct explanation of the assertion.

b) Both assertion and reason are true but the reason is not the correct explanation of the assertion.

c) Assertion is true, but reason is false.

d) Both assertion and reason are false

93) **Assertion** :Carbonate and sulphate are concentrated by froth floatation process

Reason : Pine oil wets the gangue particle

a) Both assertion and reason are true and the reason is the correct explanation of the assertion.

b) Both assertion and reason are true but the reason is not the correct explanation of the assertion.

c) Assertion is true, but reason is false.

d) Both assertion and reason are false

94) **Assertion** :Galvanising is the process of coating iron and steel with metallic zinc.

Reason : Highly resistant to rusting and corrosion.

a) Both assertion and reason are true and the reason is the correct explanation of the assertion.

b) Both assertion and reason are true but the reason is not the correct explanation of the assertion.

c) Assertion is true, but reason is false.

d) Both assertion and reason are false

WHATSAPP NO - 8056206308

(Find the wrong statement.)

95) About "Electrolytic refining"

a) The crude metal is refined by electrolysis.

b) The rods of impure metal are used as cathode.

c) Thin strips of pure metal are used as cathode.

d) Less electropositive impurities removed as anode mud.

96) About "Van-Arkel"

a)Van-Arkel method used for refining Zirconium.

b) Aluminium is a bad conductor of heat.

c) Aluminium shows high resistance to corrosion.

d) Aluminium is a good conductor of heat

97) a) Aluminium is used to produce die-castings

b) Gold nanopartides used as an catalysts

c) Copper is the first metal used by the human

d) Brass is an alloy of zinc and copper

- 98) a) Germanium is used as an semi conductor
b) Stainless steel is an important alloy of Aluminum
c) Zinc sulphide is used in making luminous paints.
d) Brass an alloy of zinc is used in water valves
- 99) a) Metallic oxides can be reduced by an alumino thermitc process.
b) Flux + gangue → slag
c) Silica gangue present in the ore is basic in nature
d) $\text{Cu}_2\text{S} + \text{FeS} \rightarrow \text{Copper matter}$
- 100) a) During roasting are oxidised.
b) Smelting is a reduction process.
c) Malachite ore is concentrate by magnetic separation
d) Horn silver is AgCl

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