



CHEMISTRY

BOOKS - FULL MARKS CHEMISTRY (TAMIL ENGLISH)

PERIODIC CLASSIFICATION OF ELEMENTS

Test Yourself

1. Predict the nature of the bond in the following molecules.

(i) NaCl

(b) NaBr

(c) Nal

(iv) NaF

(v) NaH

Textbook Evaluation Solved Choose The Best Answer

1. The number of periods and groups in the periodic table are

A. 6,16

B. 7,17

C. 8,18

D. 7,18

Answer: D

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2. The number of periods and groups in the periodic table are

A. atomic number

B. atomic mass

C. isotopic mass

D. number of neutrons

Answer: A



3. group contains the member of halogen family.

A. 17th

B. 15th

C. 18th

D. 16th

Answer: A

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4. is a relative periodic property.

A. atomic radii

B. ionic radii

C. electron affinity

D. electronegativity

Answer: B

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5. Chemical formula of rust is

A. $FeO. xH_2O$

B. FeO_4 . xH_2O

 $\mathsf{C.}\,Fe_2O_3.\,xH_2O$

 $\mathsf{D.}\,FeO$

Answer: C

6. In the alumino thermic process the role of Al is

A. oxidizing agent

B. reducing agent

C. hydrogenating agent

D. sulphurising agent

Answer: B

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7. The process of coating the surface of metal with a thin layer of zinc is

called

A. painting

B. thinning

C. galvanization

D. electroplating

Answer: C

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8. Which of the following have inert gases 2 electrons in the outermost shell ?
A. He
B. Ne
C. Ar
D. Kr

Answer: A

9. Neon shows zero electron affinity due to

A. stable arrangement of neutrons

B. stable configuration of electrons

C. reduced size

D. increased density

Answer: B

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10. Is an important metal to form amalgam.

A. Ag

B. Hg

C. Mg

D. Al

Answer: B

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Textbook Evaluation Solved Fill In The Blanks

1. If the electronegativity difference between two bonded atoms in a molecule is greater than 1.7, the nature of bonding is

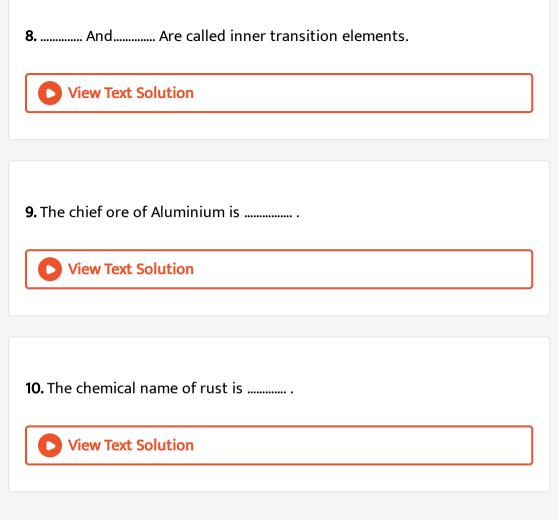
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2. Is the longest period in the periodical table.

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3. Forms the basis of modern periodic table.

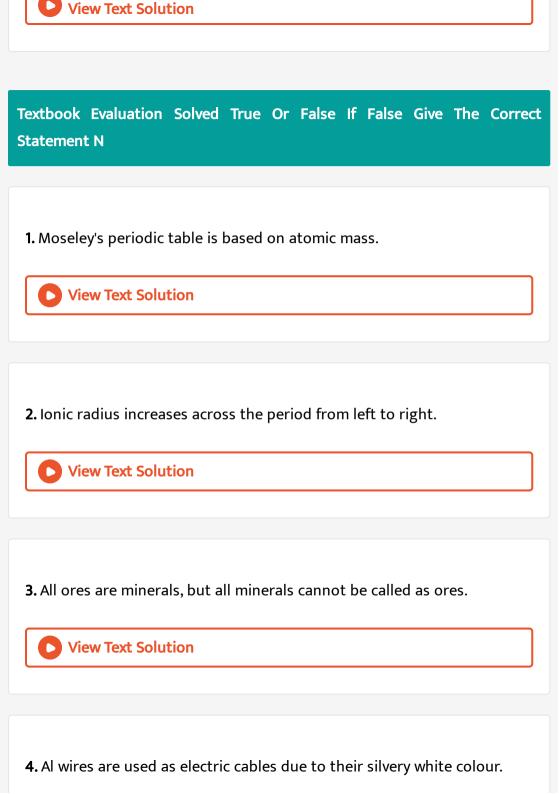
4. If the distance between two Cl atoms in Cl_2 molecule is 1.98 Å, then the
radius of Cl atom is
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5. Among the given species A^-, A^+ , and A, the smallest one is size is
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6. The scientist who propounded the modern periodic law is
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7. Across the period, ionic radii (increases,decreases)
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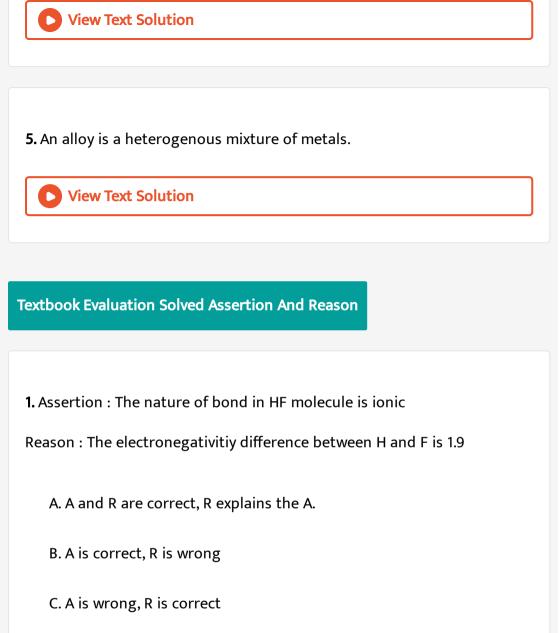


Textbook Evaluation Solved Match The Following

- 1. Galvanisation
- 2. Calcination
- **1.** 3. Redox reaction
 - 4. Dental filling
 - 5. Group 18 elements

- (a)Noble gas elements
- (b) Coating with Zn
- (c) Silver-tin amalgam
- (d) Alumino thermic process
- (e) Heating in the absence of air





D. A and R are correct, R doesn't explains A.

Answer: i



2. Assertion : Magnesium is used to protect steel from rusting

Reason : Magnesium is more reactive than iron

A. A and R are correct, R explains the A.

B. A is correct, R is wrong

C. A is wrong, R is correct

D. A and R are correct, R doesn't explains A.

Answer: i

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3. Assertion : An uncleaned copper vessel is covered with greenish layer.

Reason : Copper is not attacked by alkali

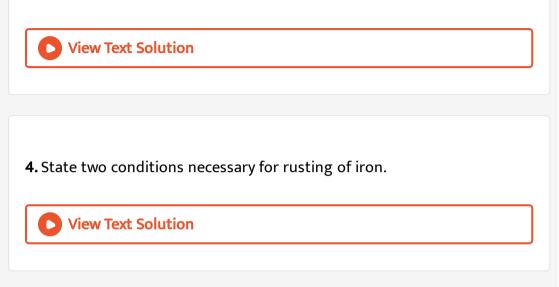
A. A and R are correct, R explains the A.

B. A is correct, R is wrong

C. A is wrong, R is correct D. A and R are correct, R doesn't explains A. Answer: iv **View Text Solution Textbook Evaluation Solved Short Answer Questions 1.** A is a reddish brown metal, which combines with O_2 at < 1370 K gives B,a black coloured compound. At a temperature > 1370 K A gives C which is red in colour. Find A.B and C with reaction. **View Text Solution**

2. A is a silvery white metal. A combines with O_2 to form B at 800° C, the alloy of A is used in making the aircraft. Find A and B.

3. Which is rust ? Give the equation for formation of rust.



Textbook Evaluation Solved Long Answer Questions

1. (a) State the reason for addition of caustic alkali to bauxite ore during purification of bauxite.

(b) Along with cryolite and alumina, another substance is added to the electrolyte mixture. Name the substance and give one reason for the addition. **2.** The electronic configuration of metal A is 2,8,18,1.

The metal A when exposed to air and moisture froms B a green layered compound. A with conc. H_2SO_4 forms C and D along with water. D is a gaseous compound. Find A, B,C and D.

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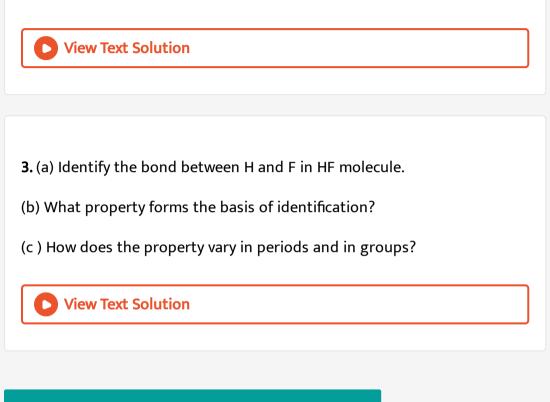
3. Explain smelting process.

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Textbook Evaluation Solved Hot Questions

1. Metal A belongs to period 3 and group 13. A in red hot condition reacts with steam to form B. A with strong alkali forms C. Find A.B and C with reactions.

2. Name the acid that renders aluminium passive. Why?



Additional Question Solved Choose The Best Answer

1. which period contains only two elements ?

A. Second

B. First

C. Third

D. Fifth

Answer: B

D View Text Solution

2. Group number of carbon family is

A. 13

B. 15

C. 17

D. 14

Answer: D

3. Lanthanides amd actinides are called as

A. Alkali metal

B. Inner transition elements

C. Transition elements

D. Representive elements

Answer: B

View Text Solution

4. Valency of all the alkali metals is

A. 1

B. 2

C.

D. 3

6. Along the group , atomic radius

A. decreases

B. increases

C. decrease then increases

D. no change

Answer: B

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7. Pics out the correct ionic radii in increasing order for the following species -Na , Cl, Na^+ , Cl^-

A. Nagt Clgt Na^+ gt Cl

B. Cl gt Na gt Na^+ gt Cl^-

C. Cl^- gt Nagt Na^+ gt Cl

D. Clgt Na^+ It Cl^- It Na

Answer: D

8. Electron affinity is measured in

A. $KJ^{\,-}$

 $B.moil|^{-}$

 $\mathsf{C.}\,KJ/mol$

D. KJ/mol^2

Answer: C

View Text Solution

9. Noble gases has Eelectron affinity .

A. Positive

B. negative

C. Zero

D. high

Answer: C



10. Which is widely used scale to determine the eletronegativity ?

A. Pauling scale

B. Moseley scale

C. Mendeleev scale

D. none of these

Answer: A



A. Ore

B. Flux

C. Slag

D. gangue

Answer: A

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12. Flux + Gangue \rightarrow ?

A. Mineral

B. Matrix

C. Salg

D. Smog

Answer: C



13. Chamical formula of clay is

A. Al_2O_3

 $\mathsf{B.}\,Al_2O_3.\,2H_2O$

 $C. Al_2O_3. 2SiO_2.2H_2O$

D. $Al_2O_3.2SiO_2.2H_2O$

Answer: C

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14. The ore which can be purified by gravity separation method is

.....

A. Haematite

B. oxide ores

C. Sulphide ores

D. both (a) and (b)

Answer: D

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15. Oil used ibn Froth floatation method is

A. Pine oil

B. natural oil

C. Crude oil

D. Synthetic oil

Answer: A

16. Zinc blende is purified by

A. Hydraulic method

B. Magnetic Separation method

C. Froth floatation method

D.

Answer: C

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17. Bauxite ore is purified by

A. Leaching process

B. Hydraulic method

C. Froth floatation method

D. Magnetic separation method

Answer: A



18. More reactive metal is

A. Zn

B. Fe

C. Ag

D. Na

Answer: D

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19. Which metal process low melting point?

A. Gallium

B. Cesium

C. Aluminium

D. Copper

Answer: A

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20. Which one of the following ios not an ores of alumimium ?

A. Bauxite

B. Haematite

C. Cryolite

D. Corundum

Answer: B

21. Coversion of bauxite into alumina is

A. Hall's process

B. Alumina thermic process

C. Baeyer's process

D.

Answer: C

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22. Electrolyte reduction of alumina into aluminium is

A. Hall's process

B. Alumina thermic process

C. Baeyer's process

D.

Answer: A



23. In the Hall's process , cathode used is

A. Iron tank

B. Graphite

C. Pure alumina

D. Iron tank linked with graphite

Answer: D

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24. Electrolyte used in Hall's process

A. Pure alumina + molten cryolite + fluorspar

B. Pure alumina + molten bauxite + fluorspar

C. Pure bauxite + molten cryolite + fluorspar

D. Pure bauxite + molten Haematite + fluorspar

Answer: A

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25. A silvery white metal is

A. Aluminium

B. Copper

C. Iron

D. Zinc

Answer: A

26. Aluminium reacts with NaOH to give

A. Al_2O_3

B. $AlCl_3$

 $C. NaAlO_2$

D. $Al(OH)_3$

Answer: C

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27. Metal used in household utensils is

A. Al

B. Co

C. Fe

D. NA

Answer: A

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28. Chief ore of copper is

A. $CuFeS_2$

B. CU_2O

 $\mathsf{C.}\, CU_2S$

D. $CuSO_4$

Answer: A

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29. Molecular formula for copper pytrites

A. Cu_2O

 $\mathsf{B.}\, CU_2S$

 $C. CuCO_3$

D. $CuFeS_2$

Answer: D

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30. Metal used in electroplating is

A. Cu

B. Al

C. Fe

D. Co

Answer: A

31. The second most abundant metal available next to aluminium is
A. Cu
B. Ag
C. Au
D. Fe

Answer: D

O View Text Solution

32. Most important ore of iron is

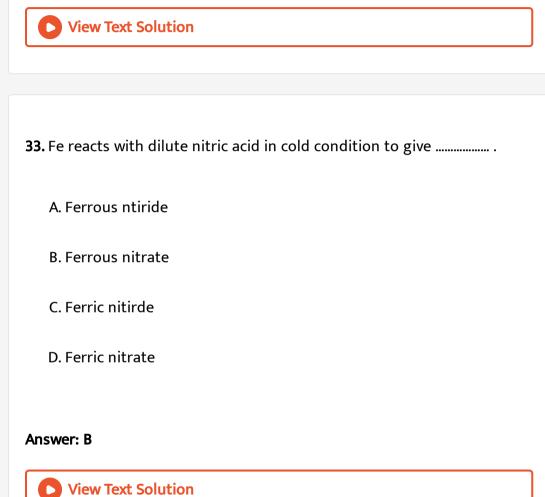
A. Haemtite

B. Magnetic

C. Iron pyrite

D. Cryolite

Answer: A



34. In the brass alloy, which is solvent?

A. Zn

B. Co

C. Ag

D. Cu

Answer: D

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35. Which one of the following is used for makinfg pressrue cookers?

A. Brass

B. Magnalium

C. Duralumin

D. Nickel steel

Answer: C

36. Which is used as propeller ?

A. Stainless steel

B. Nickel steel

C. Duralumin

D. Nickel steel

Answer: B

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37. Gold does bot occur in the combined form it does not react with air or

water . It is in the State .

A. Ag

B. Au

C. Pt

D. Al

Answer: A



38. Which of the following metal is not found in a free state ?

A. Ag

B. Au

C. Pt

D. Al

Answer: D

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39. Which one of the following does not react with copper?

A. Oxygen

B. Conc. H_2SO_4

C. NaOH

D. Conc. HNO_3

Answer: C

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40. An element which is an essential constituent of all organic compounds belongs to group .

A. 14th

B. 15th

C. 16th

D. 17th

Answer: A



41. The highest ionization energy is exhibited by

A. Halogens

B. Alkaline earth metals

C. Transition metal

D. Nobel gases

Answer: D

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42. Which two element of the following be longs to the same period ? (Al,

Si, Ba, O)

A. Si, Ba

B. Al, Ba

C. Al, Si

D. Al, O

Answer: C

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43. 98% pure copper and 2% impurities is called

A. Matte

B. Copper pyrites

C. blister copper

D. Cuprite

Answer: C

44. is used in making anchors and electromegnets .

A. Steel

B. Pig iron

C. Cast iron

D. Wrought iron

Answer: D

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45. Which reagent does not react with iron ? J

A. Conc. HNO_3

B. Conc. H_2SO_4

C. Steam

D. Dil $.HNO_3$

Answer: A

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Additional Question Solved Fill In The Blanks

1. Matte is a misture of

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2. Second froup elements are called

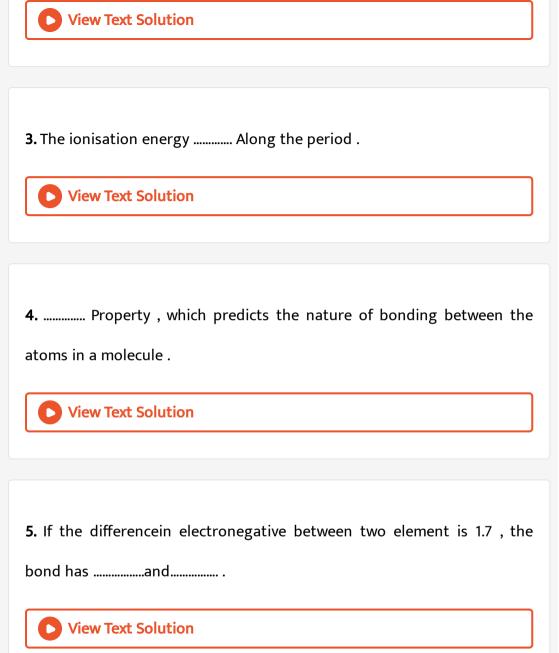
A.

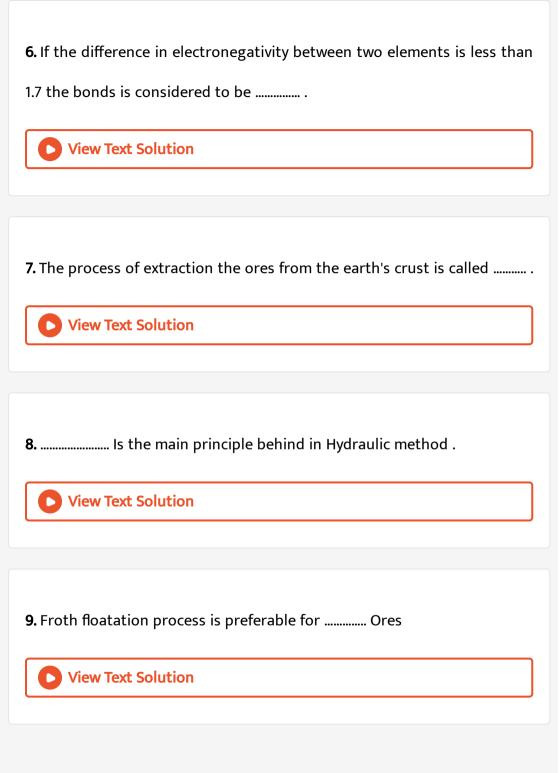
Β.

C.

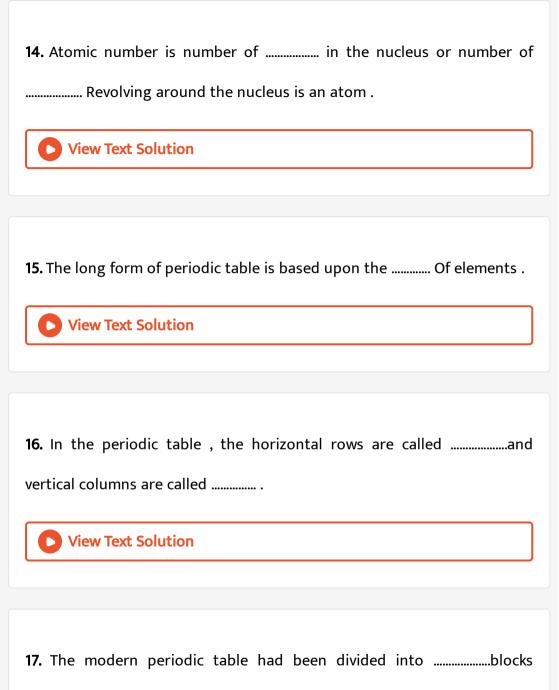
D.

Answer:





10. On heating in air , iron forms
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11. Iron reacts with Chlorine to form
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12. The corrosive action in the absence of moisture is called
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13. technique used to renovate Pamban bridge .
View Text Solution



kno0wn asblocks.

18. The Of the elements is a period decreases from left to right and the atomic radii of the element present in a groupdownwards .

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19. Period is the longest peroid and it contains elements.
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20. Metal like Ti, Cr, Mn, Zr, find their application in the manufacture of defence equipment called
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21. The metal plays a vital role in nulcear reactions releasing nuclear energy and used in nuclear weapons .



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22. Copper , silver and gold are called as they are used in making
and
and
View Text Solution
23. purity of gold is expressed inand Is pure gold .
View Text Solution
View Text Solution
24. Is an ore of a aluminium and Is its mineral .
View Text Solution
25. All cannot be called as ores but all are minerals
View Text Solution

26. The process of extraction the ores form the earth from the earth 's
crust is called
View Text Solution
27. The rocky impurity associated with the ore is called Or
View Text Solution
28. Is the process of reducing the roasted metallic oxide to metal
View Text Solution
29. Slag is the fusible product formed whenreacts withreacts be more than the extraction of metals.

30. The temperature applied in Hall's process is and the voltage
used in
View Text Solution
31. Is used in making manhole covers and drain pipes and
View Text Solution
32. Is defined as the slow and steady destruction of a metal by
the environment
View Text Solution

33. is a process of coating Zinc on iron sheets by using electric

current .

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Additional Question Solved Match The Following

- i. Boron family
- ii. Carbon family
- 1. iii. Nitrogen family iv. Chalogen family
- (c) Group 13 (d) Group 15

(a) Group 17

(b) Group 16

- (d) Group I
- v. Halogen family (e) Group 14

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- i. Alkali metals
- ii. Alkaline earth metals
- **2.** iii. Transition elements
 - iv. Inner transition elements
- (a) Lanthanides & Actinides
- (b) Group 3-12
- (c) Group 2
- (d) Group 1

i. Group 18 (a) Main group elements
ii. Group 3-12 (b) Noble gases
iii. Group 13-18 (c) Halogens
iv. Group 17 (d) Transition elements

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- i. Copper
- (a) Lustrous greyish white metal

- ii. Iron **4**.
 - iii. Aluminium (c)

 - iv. Copernicium
- (b) Cn 112
- (c) Reddish brown metal
- (d) Silvery white metal

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Alloys	Composition
i. Brass	(a) Al, Mg, Mn, Cu
5. ii. Duralumin	(b) Cu,Zn
iii. Bronze	(c) Al, Mg
iv. Magnalium	(d) Cu, Sn

Elements	Electronegative value
i. F	(a) 2.5
6. ii. Cl	(b) 2.8
iii. Br	(c) 3.0
iv. I	(d) 4.0

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7.

(Process, , Ores), (i. Hydraulic process, , (a) ZnS), (ii. Magnetic separat Al_(2)O_(3).2H_(2)O):}`

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- i. Cuprite (a) Halilde ore ii. Marble (b)Oxide ore 8.
 - iii. Fluorspar (c) Sulphate
 - iv. Galena (d) Carbonate ore

Alloy	Metals present	Uses
1. Brass	Fe, C, Ni	Statues, Coins
2. Bronze	Al, Mg, Mn, Cu	Aircraft, Pressure cookers
3. Duralumin	Fe, C, Ni, Cr	Cables, Propeller
4. Magnalium	Cu, Sn	Automobile parts, Utensils
5. Stainless steel	Cu, Zn	Scientific instruments, Air c:aft
6. Nickel steel	Al, Mg	Medals, decorative items

9.

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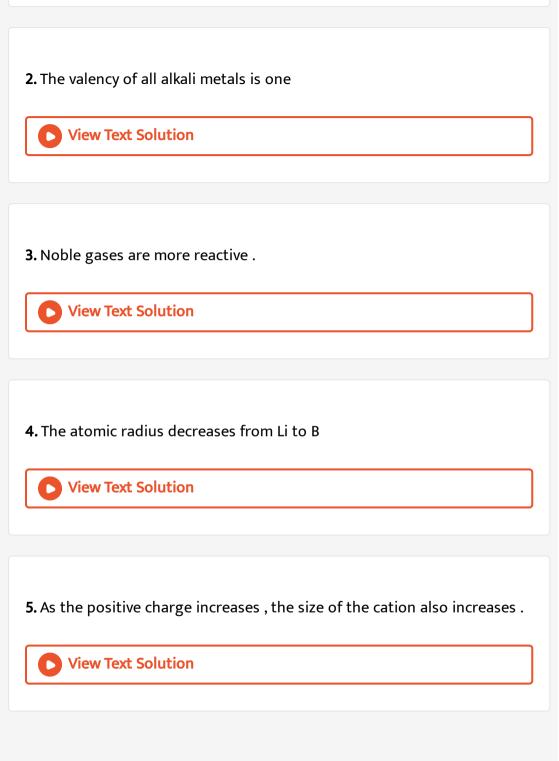
Metal	Ore	Chemical formula
1. Copper	Bauxite	ZnCO ₃
2. Aluminium	Haematite	CuFeS ₂
3. Iron	Copper pyrite	Fe ₂ O ₃
4. Zinc	Calamine	Al ₂ O ₃ . 2H ₂ O

10.



Additional Question Solved State Whether True Or False If False Give The Correct Statement

1. First period containsonly one element



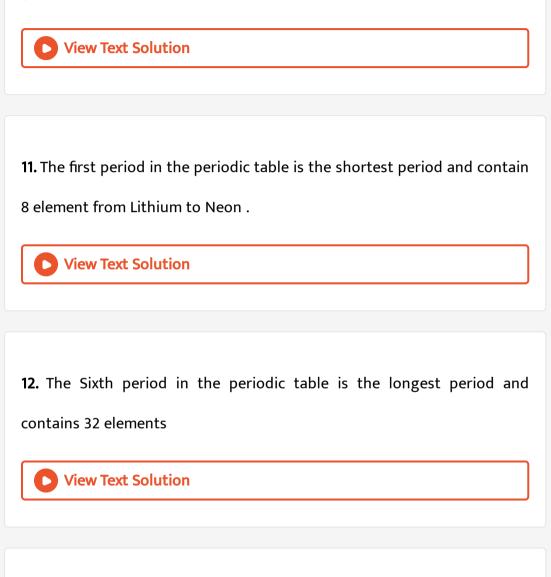
6.	Copper	pyrit	ore i	s concentrated	by gravity	separation	method .
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7. Aluiminium alloyed with gold and silver for making coins and iewels.
View Text Solution
8. The corrosive action in the presence of moisture is called wet
corrosion.
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9. The physical and chemical properties of elements are the periodic function of their atomic numbers - modern periodic law

10. The long form of periodic table consists of horizontal rows called

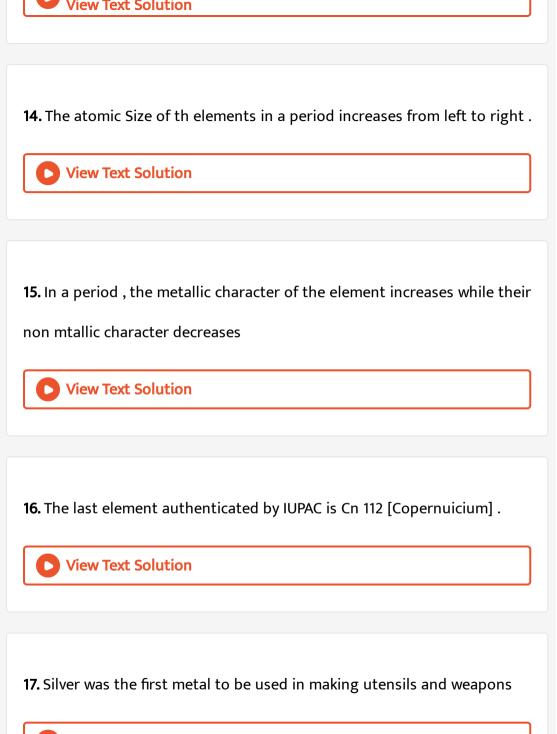
group and vertical column called period



13. Group 1,2 and 13-18 are called normal element (or)main group element

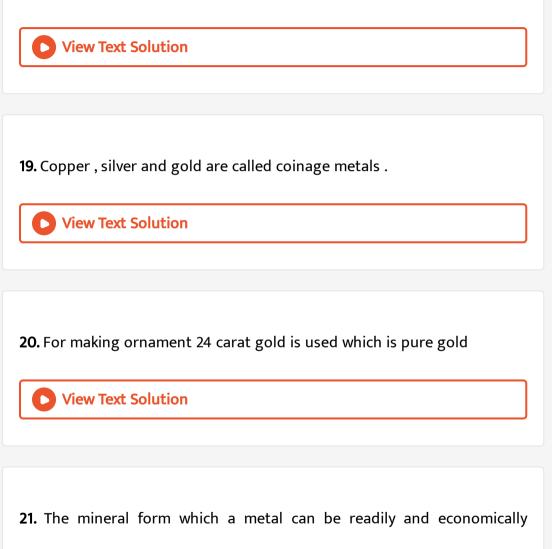
(or) representtive elements.





18. The strategic metals such as copper, silver and gold are used in the

manufacturing of defence equipments



exteracted on a large scale is said to be an ore .

22.	The	rocky	imp	urity	associated	with	the	ore i	s called	flux .

View Text Solution
23. Slag is the fusible product formed when flux reacts with gangue during the extraction of metals
O View Text Solution
24. Metals which have high chemical reactivity are found in free state or in native stae .
View Text Solution
25. Aluminium is the metal found most abundantly in the earth 's crust.
View Text Solution

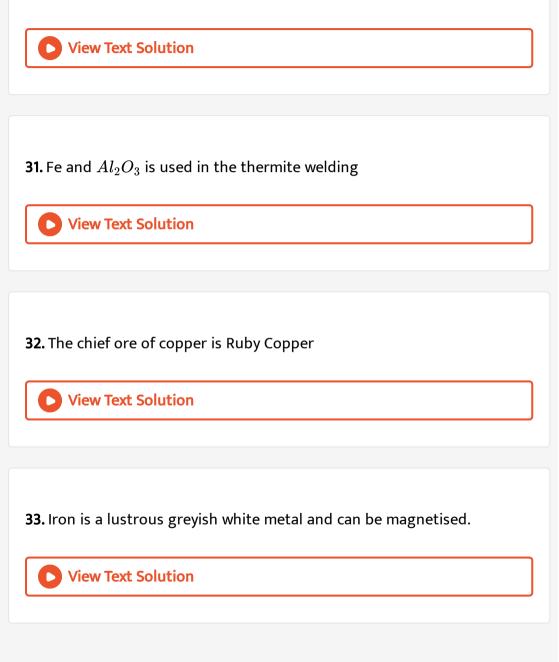
26. Aluminium is a reddish brown metal and it is a bad conductor of heat

and electricity

View Text Solution 27. Aluminium reacts with strong causitc alkalis forming aluminates . **View Text Solution** 28. Conc. Nitric acid render aluminium active due to the formation of ntiride film on its surface. **View Text Solution** 29. Aluminium is a powerful reducing agent

30. Duralumin alloy is light , having high tensile strength and corrosion

resistant



34. The rust has the chemical formula as Fe_3O_4

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Additional Question Solved Assertion And Reason

1. Assertion (A) : Nobel gas are unreactive.

Reaction (R) : The have unstable electronic configuration in their valence shells.

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer: C

2. Assertion (A) : The nature of bond in Nal molecule is covalent.

Reaction (R): The electronegativity difference between Na and I is 1.5

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer: A

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3. Assertion (A) : Heaematite ore was purified by Hydraulic method.

Reason (R): Haematite is oxide ore.

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer: A



4. Assertion (A) : Corundum is a chief ore of aluminium.

Reaction (R) : Molecular formula of corundum is Al_2O_3

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer: C

5. The chemical properties of the elements in the same period are not similar.

Reason (R) : As the electronic configuration changes across the period, the chemical properties of the elements are not similar.

A. Both (A) and (R) are correct, (R) explains the (A)

B. (A) is correct, (R) is wrong

C. (A) is wrong, (R) is correct

D. (A) and (R) are correct, (R) doesn't' explain (A)

Answer: A

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6. Assertion (A) : Copper, silver and Gold are used in making coins and jewellery. SO they are called coinage metals.

Reason (R) : These metals release enormous amount of nuclear energy.

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer: C

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7. Assertion (A) : metals like Titanium, chromium, Manganese and Zirconium are called strategic metals.

Reason (R) : They find their applications in the manufacturing of defence equipments.

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer: A

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8. Assertion (A) : Gold, Silver and Platinum are the metals that are found in free state.

Reason (R) : These metals have low chemical reactivity and are found in

free state or in native state.

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer: B

9. Aluminium occurs in the combined state.

Reason (R) : It is a reactive metal and so it occurs in combined state.

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer: A

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10. Assertion (A): In alumino thermic process, Iron oxide is reduced to iron

by igniting with Aluminium powder.

Reason (R): Aluminium is a powerful reducing agent.

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer: D

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11. Assertion (A) : When iron is dipped in conc HNO_3 , it becomes chemically inert (or) passive.

(R): Iron becomes passive when treated with nitric acid is due to the formation of a layer of iron oxide Fe_3O_4 on its surface.

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer:



12. Assertion (A): Duralumin is used in making aircraft, tools and pressure cookers.

Reason (R): Duralumin is an alloy that is light, strong, resistant to corrosion.

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer: B

View Text Solution

13. Assertion (A) : Nickel steel is used in making cables, aircraft parts and

propeller.

Reason (R): Nickel steel alloy is hard, brittle and polishable.

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer: C

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14. Assertion (A) : Magnesium is used in sacrificial protection method to prevent corrosion.

Reason (R) : Magnesium is more reactive than iron. When it is coated on

the articles made of steel, it sacrifices itself to protect steel.

A. Both (A) and (R) are correct

B. Both (A) and (R) are not correct

C. (A) is correc but (R) is wrong

D. (A) is wrong but (R) is correct

Answer: A



15. Assertion (A): Electroplating method not only protects but also enhances the metallic appearance.

Reason (R) : Electroplating is a method of coating one metal with another by passing current.

A. (A) is right, (R) is wrong

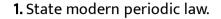
B. (A) is right, (R) is not relevant

C. (A) is right, (R) are relevant

D. Both (A) and (R) are wrong

Answer: C







2. Wrtie the flow chart of long form of periodic table.

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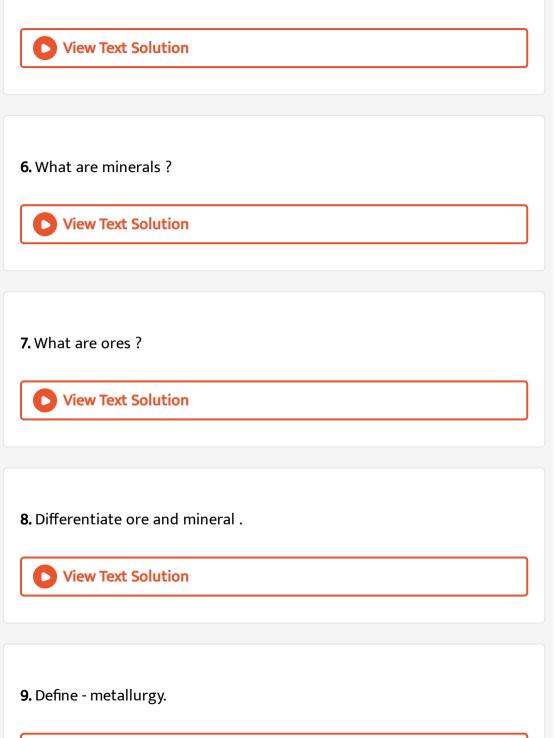
3. Write any four characterisitics of periods.

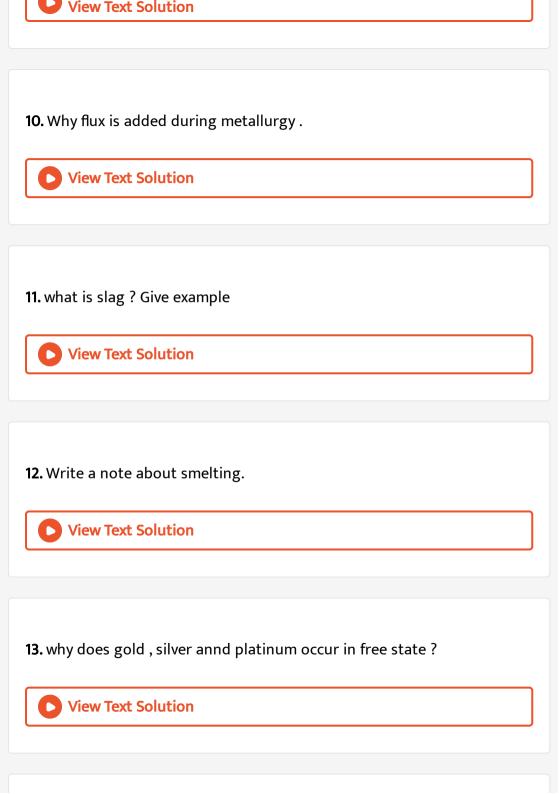


4. Briefly write any four characterisitcs of group in the periodic table .

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5. What are coinage metals ?





14. Explain the action of Aluminum with air .

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Answer:		
D.		
С.		
В.		
Α.		

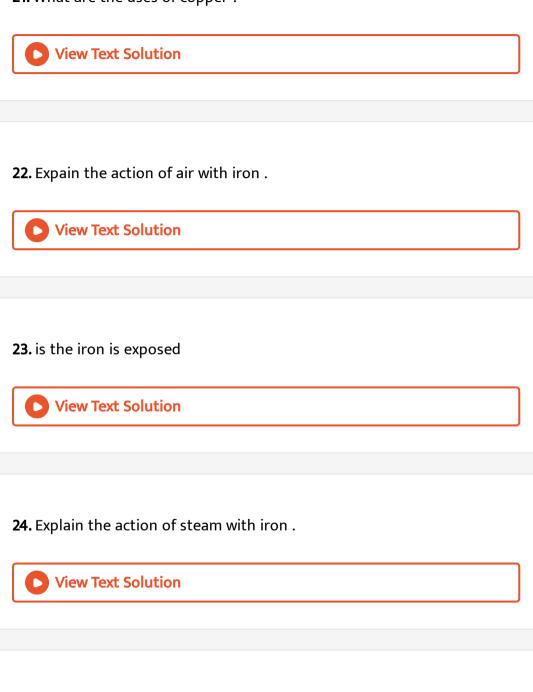
15. How does Aluminium react with caustic soda > Give equation.



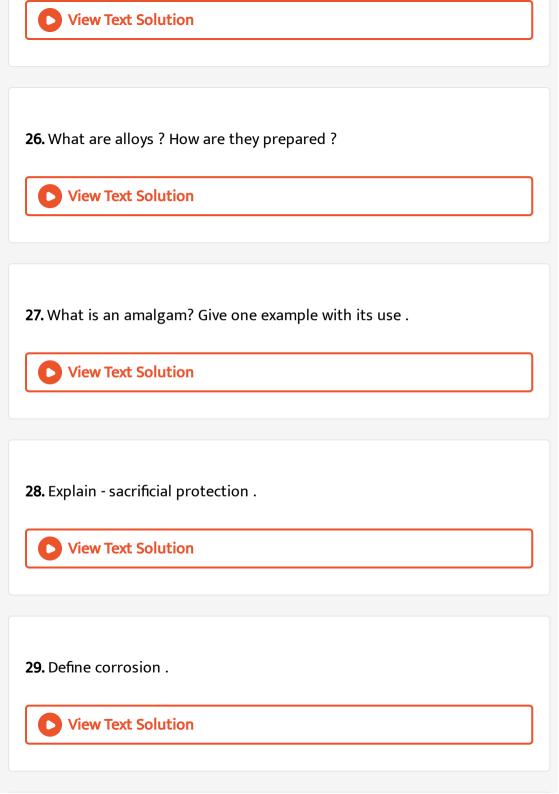
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18. What is the action of heat on copper ?
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19. Explain the action of dilute nitric acid with copper .
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20. What happens when copper is treated with conc. HNO_3 and with conc. H_2SO_4 ?
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21.	What	are	the	uses	of	copper	?
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25. Mention the types of iron on the basis of carbon content .



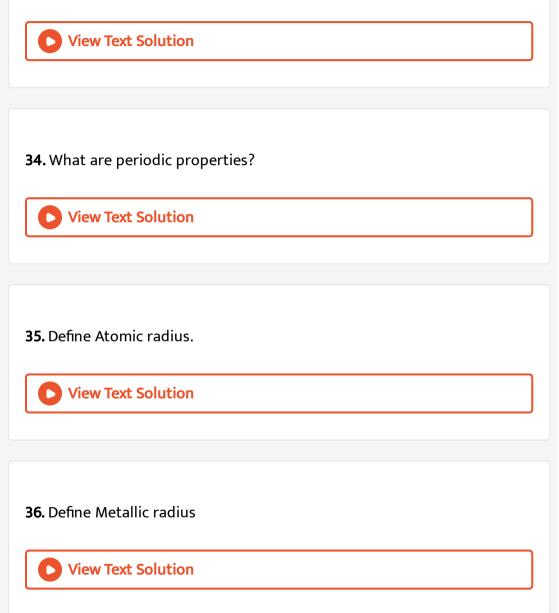
30. What are the methods used to prevent corrosion?

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31. Give any two uses of aluminum. View Text Solution
32. What are modern periodic table?
 33. Define periodicity. A. B.

C.

$\boldsymbol{\nu}$	•

Answer:



37. What is covalent radius?

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38. Define Ionisation energy

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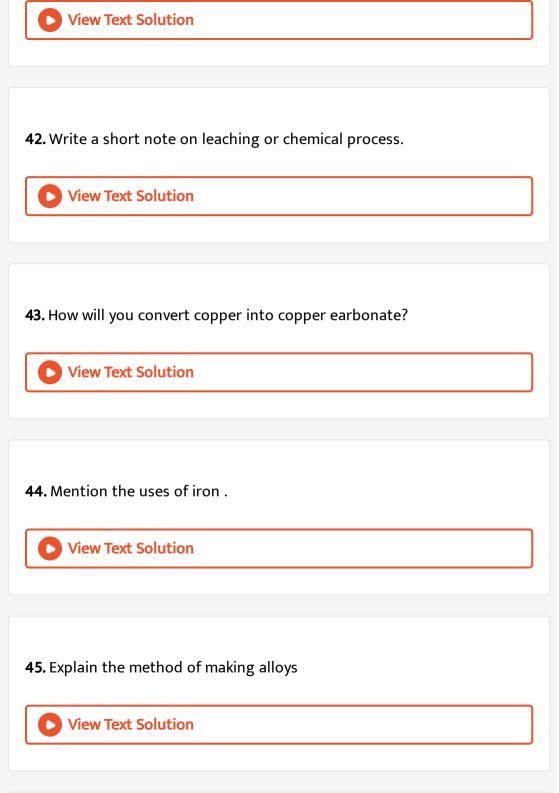
39. Define Electron affinity.

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40. What is Electronegativity?

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41. Write the steps involved in metallurgical process.



46. Why alloys are said to solid solutions?

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47. Write a note on Dry corrosion. View Text Solution	
48. Explain Wet Corrosion. View Text Solution	
49. What is electroplating? View Text Solution	

Additional Question Solved Long Answer Type Question

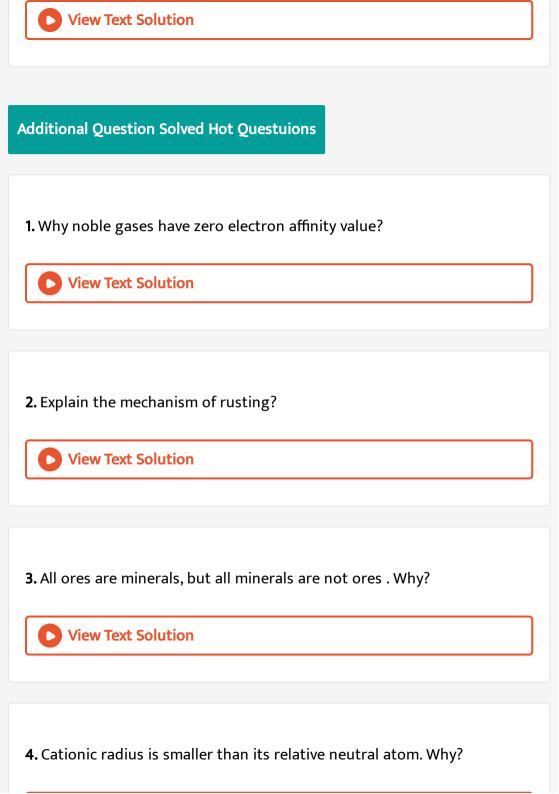
1. Explain the variation of lonisation energy along the group and period.

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2. How clectronegativity values help to find out the nature of bonding
between atoms?
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3. Explain Gravity separation method.
View Text Solution
4. Discuss the magnetic separation methods.
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5. Explain Froth floatation process.

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6. How will you extract aluminum from its ore?
7. Explain the extraction of copper from copper pyrites.
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 8. Explain the metallurgy of iron. View Text Solution

9. Explain the types of alloys .



5. Anionic radius is higher than the corresponding neutral atom. Give reason.

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6. A reddish brown metal A when exposed to moist air forms a green layer B. When A is heated at different temperature in the presence of O_2 it forms two typws of oxide -C (black) and D red identify A, B, C, d and wrtie the balanced equation .

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7. A silvery white metal on treatment with NaOH and HCl liberated H_2 gas to form B and C respectively, the metal A will not react with acid D due to the formation of a passive film on the surface . Hence it is used for

transporating acid D. Identify A, B, C, D and support your answer with balanced equations.

D View Text Solution

8. Metal A belong to period 4 and group 8. A in red hot condition reacts with steam to from B. A reacts with dulite HNO_3 to give C. A agin reacts with conc H_2SO_4 to give D . Find A ,B , C and D with suitable reaction .

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