rBQ1: When two hydrogen atoms combine to form a molecule and the two nuclei spin in the same direction, parallel spins, to give the form known asÂ  Answer: Ortho Hydrogen
FBQ2: The two hydrogen nuclei spin in opposite directions to give Answer: Para Hydrogen
FBQ3: Hydrogen can be produced by the reaction of methane within the presence of nickel catalyst Answer: Steam
FBQ4: Metals are very powerful agent Answer: Reducing
FBQ5: Sulphur reacts with to form hydrogen sulphide Answer: Hydrogen
FBQ6: Carbon monoxide is reduced strongly by hydrogen to yield a product appropriately described as Answer: Formaldehyde
FBQ7: In a fuel cell, electrical energy is generated by the reaction of hydrogen leaf, a process which is called Answer: Cold combustion
FBQ8: Fuel cells have efficiencies approaching 75% whereas power plants that burn fuels have efficiencies of only aboutAnswer: 40%
FBQ9: are soft have low melting points and are poor conductors of electricity. Answer: covalent hydrides
FBQ10: hydrogen bond is formed between two atoms of the samemolecule Answer: Intramolecular
FBQ11: Half-life period of tritium is years Answer: 12.3
FBQ12: Melting point and boiling point increases in group 14 elements because of Answer: Hydrogen bonding
FBQ13: Solubility of a substance increases markedly when is possible between the solvent and the solute molecules Answer: Hydrogen bonding
FBQ14: How many types of hydrogen bonding do we have? Answer: Two
FBQ15: What percentage of rubidium chloride is contained in Carmallite?

Answer: 0.94% FBQ16: The hydrides of lithium and sodium are used as agents in synthetic organic chemistry Answer: Reducing FBQ17: the alkali metals are very useful, some of their uses include beingused as conductors. Answer: Electrical FBQ18: Normal oxide and peroxide of alkaline metals are colourless and Answer: Diamagnetic FBQ19: Super oxides of alkaline metals are usually Coloured and Answer: Paramagnetic FBQ20: All the Group 1 metal oxides are strongly \_\_\_\_\_ and react vigorously to give hydroxide Answer: Basic FBQ21: polysulphides of sodium have a chain structure Answer: zig-zag FBQ22: The density of gallium was \_\_\_\_ kg as predicted by Mendeleev Answer: 5.8 x103 FBQ23: The works of Lars Fredrick Nilson led to discovered one very important element known as Answer: Scandium FBQ24: is the scientist who first discovered germanium as an element Answer: Winkler FBQ25: The maximum number of electrons that can be contained by d-orbital in opposite spin is Answer: Ten FBQ26: F orbital can hold maximally \_\_\_\_\_ number of electrons Answer: Fourteen FBQ27: The maximum number of electrons that can be contained by p-orbital in opposite spin is Answer: Six FBQ28: How many sub orbitals has f-orbital? Answer: Seven FBQ29: The electronic configuration of is 1s2 2s2 2p6 3s2 3p6 3d10 4s2 Answer: Zinc

FBQ30: Period 1 of the modern periodic table consists of how many elements \_\_\_\_ Answer: Two FBQ31: The metallic radius depends to some extent on \_\_\_\_\_ structure of the metal. Answer: Crystal FBQ32: Hydrogen may not be advantageous as a fuel because it is a secondary Answer: Source of energy FBQ33: Elements of the periodic table have been divided into how many blocks? Answer: Four FBQ34: Lanthanides and actinides are collectively known as \_ Answer: F-block FBQ35: A periodic element that behaves both as a metal in group (A and also as a halogen is most likely to be Answer: Hydrogen MCQ1: Second ionisation energy is greater than the first because Answer: Electron is removed from the positively charged cation that is held firmly due to nuclear forces. are more stable and requires very great MCQ2: The valence shell electron of energy to remove them Answer: Noble gases MCQ3: Ionisation energy of an element depends on all of the following except; Answer: Crystal lattices of the atom of element MCQ4: Which of the following element has the lowest ionisation energies? Answer: Ne MCQ5: The energy required to remove the least strongly bond electrons from an isolated gaseous atom on ground state is appropriately described as Answer: Ionisation energy MCQ6: The energy released or absorbed when an electron is added to the gaseous atom in its ground state is described as Answer: Electron affinity MCQ7: Which of these elements shows the highest reluctance to form an anion? Answer: K MCQ8: Which of these factors would not affect electron affinity?

Answer: Steric effect

MCQ9: \_\_\_\_\_is the tendency of an atom to attract toward itself the shared electron

pair of a bond in which it is involved

Answer: Electronegativity

MCQ10: One of these is not an isotope of hydrogen

Answer: Polonium

MCQ11: Which of these isotopes of hydrogen is radioactive?

Answer: Tritium

MCQ12: The tendency of an atom to attract toward itself the shared electron pair of a

bond in which it is involved can be measured by all these scale except;

Answer: Lothar Meyer electronegativity scale

MCQ13: How would you effectively separate a mixture of carbon (iv) oxide and

Hydrogen gas?

Answer: Pass the mixture through water which absorbs CO2 and hydrogen gas

remains insoluble

MCQ14: Â Mixture of CO and H2 is known as

Answer: water gas

MCQ15: It is not advisable to prepared hydrogen gas by one of these methods

Answer: Reaction of potassium metal with warm water

MCQ16: Which of these is used in metallurgy to reduce metal oxides to metals in cases

where carbon cannot be used because the metal can form carbide?

Answer: Hvdrogen

MCQ17: Stability of the alkali metal complexes decrease as you go down the group

one of these order

Answer: Li >Na>K>Rb>Cs

MCQ18: The following metallic elements are most likely to be extracted by electrolysis

of their fused chloride except

Answer: Magnesium

MCQ19: One of these is used as a window materials in x-ray apparatus and also in

making atomic fuel containers

Answer: Beryllium

MCQ20: The process by which metal ion is surrounded by solvent molecules is

appropriately described as

Answer: Solvation

MCQ21: All are the three types of oxides which are formed by the alkali metals except

Answer: Amphoteric oxide

MCQ22: One of these elements in its stearate form may be used as grease

Answer: Li

MCQ23: One of these metal element is obtained by the reduction of its chloride with

sodium vapour Answer: Potassium

MCQ24: Sodium occur naturally in combine state due to its reactivity. Sodium does not

occur in one of these ores

Answer: Kainite

MCQ25: One of these is not a hydride

Answer: Stoichiometric hydrides.

MCQ26: The attractive force which binds hydrogen atom of one molecule with electronegative atom of another molecule, generally of the same compound is known

as Â

Answer: Hydrogen bonding

MCQ27: One of these is not a property of metals

Answer: They form acidic oxides

MCQ28: The concept of atomic number was essentially discovered in 1913 by one of

these scientists

Answer: Henry Moseley

MCQ29: \_\_\_\_\_ states that as far as possible in a given atom in the ground state, electrons in the same sub shell will occupy different orbitals and will have parallel spins

Answer: Hund's rule

MCQ30: There exist a set of empty hydrogen like orbitals into which electrons can be

added. This assumption was made by\_\_\_\_

Answer: Aufbau principle ....

MCQ31: Which of these is the electronic configuration of scandium?

Answer: [Ar] 3d14s2

MCQ32: The electronic configuration of nickel is

Answer: [Ar] 3d74s2

MCQ33: A Metal halides may be obtained by the direct combination of a metal and

Answer: Halogen

MCQ34: One of these is the electronic configuration of copper?

Answer: 1s2 2s2 2p6 3s2 3p6 3d10 4s1

MCQ35: Identify the element that has this electronic configuration:

1s2Â 2s2Â 2p6Â 3s2Â 3p6Â 4s2.

Answer: Ca

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