***final science revision sheet for 2nd prep***

**Choose :**

1. The scientist who left gaps in his table to be filled with suitable discovered elements ( Moseley – Rutherford – Bohr- Mendeleev )
2. The block which contains the group 1A and 2A in the periodic table is

 ( alkali- alkaline earth- transition- inert)

1. The block that contains the group ( 1A- 2A) in periodic table is ( s – p – d – f)
2. The scientist ------------------- who discovered that the nucleus of atom

 contains positively charged protons ( Bohr- Mendeleev – Rutherford)

1. Metal oxides are ----------------- oxides ( acidic- basic- amphoteric- neutral)
2. In the same period , elements which have the highest electronegativity lies in group ( 1A- 2A- 7A- 0)
3. The elements of 1st group are known as ( halogen – inert – alkaline - alkaline earth)
4. The hottest atmospheric layer is ( troposphere- stratosphere- mesosphere- thermosphere)
5. The planes fly in the --------------- layer ( troposphere – stratosphere- thermosphere- mesosphere)
6. The device used to measure the altitude from the earth surface is ( the altimeter- aneroid- barometer- a and b)
7. The layer extend from the stratopause to mesopause is (troposphere- stratosphere- mesosphere- thermosphere)
8. The temperature decreases by ----------------- at 2 km above the sea level. (6.5- 13- 30) C
9. The ionosphere is located in the upper part of the ------------------layer (magnetic – electrical- ionic- thermal )
10. The ozone layer in the -----------------( troposphere – mesosphere- stratosphere – thermosphere)
11. The ozone hole increases in ------------------- of each year ( October- September- December- January)
12. Global warming happen because of---------------------------------------------------- ( the lack of carbon dioxide in atmospheric envelope- increase amount of carbon dioxide in atmospheric envelope- the lack of plant on earth- b and c)
13. On solidification of the resinous matter secreted by pine trees in the old geological periods it forms ----------------------------------------( fossils of complete body- amber fossils- trilobite fossil – nummulites fossil )
14. Worms tunnels fossil is formed because of------------------ ( the presence of hard skeleton- the activity of worms during its life)
15. Which is the following fossils indicates that the environment they were formed in a hot or rainy tropical environment ( nummulites- ferns – coral- archaeopteryx )
16. Which is the following fossils play an important role in petroleum exploration ? ( forminfera and radiolarian – forminfera and trilobite- radiolarian and nummulites )
17. There are ------------------ bonds between water molecules ( metallic- ionic – hydrogen – covalent )
18. There is a -----------------bond between oxygen and hydrogen in water molecule. ( metallic – ionic- hydrogen- covalent)

**Write the scientific term**

1. The ascending order of the elements according to their atomic weight

(-----------------------)

1. The table in which elements are arranged according to their atomic number

(------------------------).

1. The block that contains elements of actinides and lanthanides. (---------------)
2. The ability of atom in covalent bond to attract electrons to itself.

(---------------------)

1. An atom lost or gained one or more electrons during chemical reaction

(-----------------------)

1. Continuous decrease in the number of member of certain species. (----------)
2. Traces or remains of old living organisms preserved in sedimentary rocks (…………….)
3. Dying out of all members of certain species. (----------------------)
4. A kind of the element in which valency electrons contains more than 4 electrons. (--------------------)
5. Elements that have the properties of metals and nonmetals

(-------------------)

1. The radioactive elements that are used in preservation of food.

(------------------------)

1. The nonmetal which is used in preservation of cornea of the eye .

 (-------------------)

1. Path of energy that transfer from one living organism to another in ecosystem. (-----------------------)
2. Group of overlapping food chain. (------------------------)
3. A device used to measure the altitude from the earth surface(----------------)
4. A phenomenon looks like a colorful curtains seen in the two poles.

(-------------------)

1. A kind of gases formed in the stratosphere. (-------------------)
2. Two magnetic belts help in dispersing harmful cosmic radiation away from the earth (--------------------)
3. The traces that indicates the activity of living organisms during their life

(-------------------)

1. The process of conversion of the parts of living organism in to solidified materials. (---------------------)
2. Safe places that are specified to protect the endangered species in their natural environment. (----------------------)

**Complete the following**

1. 2Na+ ---------→2NaOH+H2
2. 2K+2H2O →---------+---------.
3. 2Na+Cl2 →----------------
4. Cl2 +2KBr →---------+---------.
5. 2 Mg +2HCl→--------+----------.
6. Cu +HCl →--------------.
7. ----------+---------→H2CO3

**Give reason for**

1. The atomic size decreases by increasing atomic number in the same period and increases in the same group.

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1. Water molecule is from polar covalent compound.

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1. Cesium is considered one of the strongest metallic elements.

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1. Aluminum oxide is considered amphoteric oxide.

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1. Elements of group 1A are known as alkali metals.

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1. Cobalt 60 is used in preservation food.

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1. Liquefied nitrogen is used in the preservation of cornea of the eye.

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1. Sodium and potassium are kept under the surface of kerosene.

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1. Water is polar solvent.

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1. Water has high boiling point and low freezing point.
2. In water electrolysis , amount of hydrogen produced is double the amount of oxygen produced

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1. We used acidified water in water electrolysis process.

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1. The ionosphere is very important to radio stations

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1. The occurrence of aurora phenomenon.

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1. The continuity of erosion of ozone layer.

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1. The amber is considered as suitable medium to form complete body fossils.
2. The simple ecosystem is affected by the absence of one species

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**What is meant by?**

1. Metalloids………………………………………………………………………………………………….
2. Polar compounds………………………………………………………………………………………..
3. Chemical activity series ……………………………………………………………………………………............................................................................................................................................................
4. Ozone hole……………………………………………………………………………………………………
5. Dopson…………………………………………………………………………………………………………
6. Global warming…………………………………………………………………………………………….
7. Petrification…………………………………………………………………………………………………
8. The mold…………………………………………………………………………………………………….
9. Petrified fossils………………………………………………………………………………………..

**Locate the position of the following elements in the modern period table**

1. Hydrogen ( 1H)
2. Aluminum (13Al)
3. chlorine (17 Cl)
4. Calcium (20Ca)

**Compare between simple and complicated ecosystem**