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

***(2014-2015)***

**Choose :**

1. The scientist who left gaps in his table to be filled with suitable discovered elements ( Moseley – Rutherford – Bohr- Mendeleev’s )
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’s – Rutherford- Moseley

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
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 CFCs compounds break down under the effect of ultraviolet rays to release --------------- atoms ( carbon- chloride- oxygen- Freon)
12. The ozone hole increases in ------------------- of each year ( October- September- December- January)
13. 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 )
14. 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 )
15. Worms tunnels fossil is formed because of ( the presence of hard skeleton- the activity of worms during its life
16. The death of the worms and its fast burial in sedimentary rocks- the death of the worms and its fast burial in snow layers)
17. Which is the following fossils indicates that the environment they were formed in a hot or rainy tropical environment ( nummulites- ferns – coral- archaeopteryx )
18. Which is the following fossils play an important role in petroleum exploration ? ( forminfera and radiolarian – forminfera and trilobite- radiolarian and nummulites )
19. There are ------------------ bonds between water molecules ( metallic- ionic – hydrogen – covalent )
20. There is a -----------------bond between oxygen and hydrogen in water molecule.

**Write the scientific term**

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

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

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. A kind of the element in which valency electrons contains more than 4 electrons. (--------------------)
2. Elements that contains 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. A device used to measure the altitude from the earth surface(----------------)
2. A phenomenon looks like a colorful curtains seen in the two poles.

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

1. A kind of gases 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. Hunting wild animals with a random unorganized way which exposes to extinction. (------------------------)
3. Safe places that are specified to protect the endangered species in their natural environment. (----------------------)
4. The amount of heat used to change 1 kg of solid to liquid without the change in temperature.(---------------------)
5. The amount of heat needed to change 1kg to liquid to vapor without change in temperature. (------------------------)
6. The amount of heat needed to raise the temperature of 1 kg of water by 1C

**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.
2. Water molecule is from polar covalent compound.
3. Cesium is considered one of the strongest metallic elements.
4. Aluminum oxide is considered amphoteric oxide.
5. Elements of group 1A are known as alkali metals.
6. Cobalt 60 is used in preservation food.
7. Liquefied nitrogen is used in the preservation of cornea of the eye.
8. Sodium and potassium are kept under the surface of kerosene.
9. We use water to put off fires.
10. Water is polar solvent.
11. Water has high boiling point and low melting point.
12. Water has neural effect on litmus paper
13. In water electrolysis , amount of hydrogen produced is double the amount of oxygen produced
14. We used acidified water in water electrolysis process.
15. The ionosphere is very important to radio stations
16. The occurrence of aurora phenomenon.
17. The continuity of erosion of ozone layer.
18. The amber is considered as suitable medium to form complete body fossils.
19. Rhinosour is considered endangered species

**What is meant by?**

1. Metalloids
2. Polar compounds
3. Metals
4. Chemical activity series
5. Montreal protocol
6. STP
7. Ozone hole
8. Dopson
9. Global warming
10. Fossils
11. Extinction
12. Petrification
13. The mold
14. Petrified fossils
15. Latent heat of fusion
16. Latent heat of vaporization
17. Specific heat

**Match**

|  |  |
| --- | --- |
| A |  **B**  |
| 1. Mendeleev
 | 1. added noble gas in 0 group
 |
| 1. Rutherford
 | 1. Discovered the main energy levels of the atoms
 |
| 1. Moseley
 | 1. Corrected the atomic weight of some elements
 |
| 1. Bohr
 | 1. Discovered that the nucleus of the atom contains protons.
 |

|  |  |
| --- | --- |
| A | B |
| 1. Altimeter
 | 1. A device used to determine today’s weather
 |
| 1. Aneroid
 | 1. A suitable layer for aeroplane flying
 |
| 1. Troposphere
 | 1. A device used to measure the altitude of the planes
 |
| 1. Stratosphere
 | 1. The hottest layer in the atmosphere
 |
| 1. Mesosphere
 | 1. The layer that has all whether phenomenon
 |
|  | 1. The coolest layer in atmospheric envelope
 |
|  |  |

|  |  |
| --- | --- |
| **A** | **B** |
| 1. The protectorate of pertrified wood is in
 | 1. The protectorate of nile islands in Aswan
 |
| 1. The limestone rock is in
 | 1. Al fayioum
 |
| 1. Waddi el rayan protectorate is in
 | 1. El mokatam mountain
 |
| 1. Rapyrus plant is reproduced in
 | 1. The pharonic village in Giza
 |
|  | 1. El Qatamia
 |

**Compare between**

1. Alkalies and alkaline earth
2. Altimeter and aneroid
3. Troposphere and ionosphere

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

1. Hydrogen ( 1H)
2. Aluminum (13Al)
3. chlorine (17 Cl)
4. Calcium (11 Na)
5. Magnesium (18Ar)