

# Last Look

First term

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### Write the scientific term:

- 1- Continuous decrease in the number of species members without compensation until all die out.
- 2- A type of ultraviolet radiation that is absorbed completely 100% in ozone layer.
- 3- An animal has a wolf's head, dog's tail and skin like a tiger.
- 4- Pollution originated from leakage of radioactive substance from the nuclear reactors.
- 5- A charged layer reflects radio waves.
- 6- What a dead body of an organism leaves in sedimentary rocks.
- 7- The weight of air column of atmospheric air on unit area.
- 8- Arrangement of metals in a descending order to their chemical activity.
- 9- Continuous increase of the average temperature of air near earth's surface.
- 10- An instrument used by pilots to measure the elevation from the sea level.
- 11- Elements which start appear in the fourth period.

- 12- A kind of water pollutants which arises from different human activities.
- 13- The elements which have the properties of both metals and non metals.
- 14- They are safe areas established to protect endangered species in their homeland.
- 15- Remains of old living organisms that lived in the past for certain period then became extinct.
- 16- Replacing a part by part of the wood material of trees by silica to form petrified wood.
- 17- The type of ions which are formed by alkali metals during the chemical reactions.
- 18- Elements of group (B) in the modern periodic table.
- 19- A type of ultraviolet radiation rays penetrates the ozone layer by a ratio 100%.
- 20- A layer plays an important role in wireless communications.
- 21- It is used in preservation of the cornea of the eye.
- 22- It is a mammal that has a shape midway between horse and zebra.
- 23- A replica of external details of a skeleton of once an old living organism.
- 24- The block which contains the transition elements in the modern periodic table.
- 25- The positive pole of Hofmann's voltammeter.
- 26- A molecule is formed by combining an atom of an element with molecule of the same element.
- 27- The ability of the atom in the covalent molecule to attract the electrons of the chemical bond towards itself.
- 28- The measuring unit of atomic radius which is used as a measure for the atomic size.
- 29- A barometer used to determine the possible day weather.
- 30- An apparatus which is used in water electrolysis.

- 31- Monovalent nonmetals located in group (7A).
- 32- The death of all members of species of living organisms.
- 33- Two magnetic belts that help in scattering of harmful cosmic radiations away from the earth.
- 34- The first group of s-block elements in the periodic table.
- 35- A phenomenon that appears as brightly colored light curtains seen from the two poles of the earth.
- 36- The boundary separating between stratospheres when temperature is rather constant.
- 37- The coldest layer of the atmospheric envelope.
- 38- Elements in zero group.
- 39- It is the process of converting the molecules of some covalent compounds into ions.
- 40- Elements of group (1A) in the modern periodic table.
- 41- The scientist who discovered the presence of protons in the nucleus.
- 42- Curved lines that join the points of equal pressure in the atmospheric pressure maps.
- 43- Block of elements consists of 10 groups and found in the middle of the table.
- 44- The gas which evolves above the anode during water electrolysis.
- 45- The path of energy that transmits from a living organism to another in the ecosystem.
- 46- The halogen which exists in a solid state.
- 47- Thinning or losing parts of ozone layer.
- 48- A water pollutant which causes the death of brain cells.
- 49- The strongest nonmetallic element.
- 50- It puts the red list for the endangered species.

## **Complete the following statements:**

- 1- Mendeleev arranged the elements ascendingly according to .....
- 2- ..... And ..... are from endangered mammals.
- 3- Fossils are found in ..... rocks.
- 4- Most weather features occur in ..... Layer, while satellite swim through ..... layer.
- 5- Pure water boils at ..... and freezes at .....
- 6- Archaeopteryx links between ..... and .....
- 7- The most important green house gases are ..... and .....
- 8- ..... Is the region between stratosphere and mesosphere.
- 9- .....Is a type of barometers that is used to determine the day weather.
- 10- The highest element in electronegativity is ..... , while the most metallic element is .....
- 11- Metal oxides are called ..... oxides, while nonmetal oxides are called ..... Oxides.
- 12- The ultraviolet radiations have ..... effect, while the infrared radiations have ..... effect.
- 13- During the electrolysis of acidified water ..... gas evolves at the anode, while ..... Gas evolves at the cathode.
- 14- The scientist ..... discovered the main energy levels in the atom, but the scientist Rutherford discovered .....
- 15- Meteors are formed in ..... layer, but satellites float in ..... later.
- 16- Fossils are used in ..... exploration and determining the age of .....
- 17- The halogens existed in gaseous state are ..... and .....

- 18- Increasing the mercury concentration in drinking water causes ....., while arsenic increases the infection rate by .....
- 19- Among the pollutants of ozone layer ..... compounds that are used in air conditioning sets and ..... compounds that are used in fire extinguishers.
- 20- The hottest layer of the atmosphere is ....., while the coldest layer is .....
- 21- The modern periodic table consists of ..... horizontal periods , ..... vertical groups.

## **Give reasons:**

- 1- The lower part of stratosphere is suitable for flying of airplanes.
- 2- Using radioactive cobalt in food preservation.
- 3- Water molecules is from polar compounds.
- 4- Occurrence of aurora phenomenon.
- 5- Extinction of passenger pigeons.
- 6- The atomic size increases through group.
- 7- Ionosphere is called by this name.
- 8- The alkali metals are kept under kerosene.
- 9- Water is used in extinguishing fires.
- 10- Dodo bird was an easy target for hunters.
- 11- Increasing the temperature of stratosphere layer gradually.
- 12- Sodium fires are not put off with water.
- 13- The bald eagle is one of endangered species.
- 14- Liquified nitrogen is used in preservation of cornea of the eye.

15- The air movement of the troposphere layer is vertical.

16- Removing trees is one from the most important factors of the extinction.

## **Write the balanced chemical equations:**

1- Water electrolysis

2- Reaction of carbon dioxide with water

3- Reaction of magnesium with hydrochloric acid

4- The formation of ozone gas

5- Reaction between chlorine gas and potassium bromide.

6- Dissolving of magnesium oxide in water.

## **What is the difference between Complicated and simple ecosystems?**

### **Problems:**

1- If the temperature at the top of a mountain is 17 c. calculate the temperature at its base if the mountain height is 2000 m?

2- Calculate the temperature at the top of Everest mountain, which its height is 8862 meter, if the temperature at the foot of this mountain is 20.6c?

3- Calculate the height of a mountain if the temperature at its based is 20c and at its top is -6c?

### **Mention the position of the following elements in the modern periodic table:**

$_{11}\text{Na}$     $_{20}\text{Ca}$     $_{17}\text{Cl}$     $_{10}\text{Ne}$     $_{3}\text{Li}$     $_{18}\text{Ar}$     $_{8}\text{O}$     $_{19}\text{K}$

**Wishing you all good luck**

**Mr. Mohamed**

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