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ف (أ) A.E.

Arab Republic of Egypt
Ministry of Education

E ٣٣١٢

3rd preparatory Exam for our sons abroad - Second term 2019

Science

(الفصل الدراسي الثاني ٢٠١٩)

Time: 2 hours

(الاسئلة في صفحاتين)

العلوم بالإنجليزية للصف الثالث الإعدادي

تنبیه هام : یسلم للطالب ورقة امتحانية باللغة العربية مع الورقة المترجمة

Answer the following questions:

Question (1):

A) Complete the following statements:

- 1- The reaction of a quantity of iron filings with a diluted hydrochloric acid is than the reaction of a piece of iron having the same mass.
- 2- The between two points is measured by a voltmeter in a unit of.....
- 3- When the amount of iodine in the food decreases, the secretion ofhormone decreases that is produced by gland.
- 4- The traits that are transmitted from one generation to another are called
- 5- Spontaneous transformation in the atomic nuclei of some radioactive elements in nature is called

B) Explain the following

- 1- Effervescence occurs when adding zinc piece to diluted hydrochloric acid.
- 2- The rheostat is used in some electrical circuit.
- 3- Mendel selected the pea plant to make his experiments. (two reasons only)

Question (2):

A) Write the scientific term for each of the following:

- 1- It is chemically composed of nucleic acid DNA with protein.
- 2- The hormone responsible for the appearance of the male secondary sex features.
- 3- The changes that take place to a living organism due to exposure to radiation.
- 4- The substance that increases the rate of the reaction without itself being consumed.
- 5- The matter that loses one electron or more during the chemical reaction.
- 6- The trait that disappears in the first generation and appears in the second generation.

B) Show the symbolic and balanced chemical equation that expresses each of the following reactions:

- 1- Add silver nitrate solution to sodium chloride solution
- 2- Decomposition of red mercuric oxide by heating

☆ (((بقية الأسئلة في الصفحة الثانية))) ☆

Question (3) :**A) Put (\checkmark) in front of the correct statement and (X) in front of incorrect one:**

- 1- Calcitonin is the hormone that adjusts the level of calcium in the human body.
- 2- A dominant trait in human is the free ear lobe trait.
- 3- The electromotive force of a number of identical electric cells connected in series is equal to the electromotive force of one cell.
- 4- The radioactivity phenomenon was discovered for the first time by French scientist Henry Becquerel.

B) Calculate the quantity of electricity that passes through a conductor when the potential difference between its terminals is 12 volts and the work done is 600 Joule

Question (4):**A) Choose the correct answer from those between brackets:**

- 1- The measuring unit of the electromotive force is the (Coulomb – Ampere – Volt)
- 2- Mendel's first law is known as
(segregation of factors – independent assortment of factors – hereditary traits)
- 3- An alternating current can be obtained by a (dry cell – electric motor – dynamo)
- 4- Sweet potato contains enzyme (Oxidase – Insulin – Thyroxin)
- 5- The reactions in which two radicals of each of two compounds exchange to form new compounds are called..... (decomposition – simple substitution – double substitution)

B) Use symbols to express the results of crossing a white flower pea plant pure (rr) with a pure red flower pea plant (RR).

(Illustrating: parents – gametes – first generation)

C) Ohms law shows a relation between the current intensity through a conductor and the potential difference between its terminals. Write down the mathematical formula of this law.

★ (((انتهى الأسئلة))) ★