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# موقع المناهج المصرية

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## Ministry of Education

Exam of 3<sup>rd</sup> preparatory for our sons in abroad Second Term 2017

Science

Time: 2 Hours

(العلوم بالانجليزية للصف الثالث الإعدادى) (الفصل الدراسى الثانى ٢٠١٧) (الأسئلة فى صفحتين)

تنبيه هام : يسلم الطالب ورقة باللغة العربية مع الورقة المترجمةAnswer all the following questions:Question one:( A ) Complete the following statements with suitable words:

- 1- When the amount of iodine in food decreases, the secretion of ..... hormone by ..... gland decreases.
- 2- Nitric acid is used in the manufacture of ....., and the sodium chloride salt is used in .....
- 3- Mendel named the trait that appears in all individuals of the first generation as ..... trait and named that disappears as .....trait.
- 4-  $2Al + \dots\dots\dots \longrightarrow 2AlCl_3 + \dots\dots\dots \uparrow$

(B) Calculate the potential difference between the two ends of an electric device that has resistance 30 ohm and an electric current of intensity 10 ampere passes through it.

Question two:( A ) Write the scientific term that indicates each of the following statements:

- 1- Change in the nature of genetics that control the traits of a living organism.
- 2- The change in the concentration of the reactants and resultants in a unit time.
- 3- A substance contains positive hydrogen ions, and turns blue litmus paper into red.
- 4- An arrangement of metals in a descending order according to their chemical reactivity.
- 5- The mechanism with which hormones act in the human body to achieve homeostasis.
- 6- The mixture in which the solute molecules are regularly distributed in between the solvent parts.

(B) Compare between connection of identical electric cells in series and their connection in parallel according to the total electromotive force.

(بقية الأسئلة فى الصفحة الثانية)

★ حل نماذج اختبارات المسار المصري لعام (2017) لمادة ( Science )

Question one:

- [A]
- 1- Thyroxine, thyroid.
  - 2- Cancelled.
  - 3- dominant, recessive.
  - 4-  $2Al + 6HCl \xrightarrow{dil} 2AlCl_3 + 3H_2 \uparrow$ .

[B]  $V = R \times I = 30 \times 10 = 300 \text{ Volts}$ .

Question two:

- [A]
- 1- Cancelled.
  - 2- rate (speed) of a chemical reaction.
  - 3- Acids.
  - 4- chemical activity series.
  - 5- Cancelled.
  - 6- cancelled.

[B] connection in series

- e.m.f = no of cells  $\times$  e.m.f of one cell.

$$E_{\text{battery}} = n \times E_1$$

- used to obtain high e.m.f.

قائدات المدرسة:

ا. سلوى النصار ا. مريم ال طلحه

connection in parallel

- e.m.f = e.m.f of one cell.

$$E_{\text{battery}} = E_1$$

- used to obtain low e.m.f.

معلمة المادة:

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★ حل نماذج اختبارات المسار المصري لعام (2017) لمادة ( Science )

Question 3 :

A)

- 1 -  $O_2$ .
- 2 - Cancelled.
- 3 - Becquerel.
- 4 - Insulin.
- 5 - Catalyst.
- 6 - gene.

B) 1 - measure the electric resistance.

2 - for drilling of petroleum & underground water.

Question 4 :

A)

- 1 - (✓).
- 2 - (x).
- 3 - (✓).
- 4 - (✓).
- 5 - (x).
- 6 - (x).

B)

- 1 - Because, it's below hydrogen in chemical activity series.
- 2 - Because, it secretes adrenaline hormone which stimulates body's organs to respond to emergencies like fear, anger, emotion.

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