



محافظة القاهرة
مديرية التربية والتعليم

نموذج استرشادي لامتحان إتمام الدراسة بمرحلة التعليم الأساسي

الفصل الدراسي الثاني 2024 / 2025 م

المادة : علوم (تراجم لغة انجليزية) ..

التاريخ : / / 2025 م

زمن الإجابة : ساعتان...

عدد أوراق الإجابة (5) ورقات بخلاف
الغلاف

و على الطالب مسئولية المراجعة
و التأكد من ذلك قبل تسليم الكراسة
في نهاية الوقت المخصص للإجابة

مجموع الدرجات

رقم سؤال	الدرجة رقمها	الدرجة كتابة	التوقيع
..... :			المقدر
..... :			المراجع
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المجموع			

رقم المراقبة

نموذج استرشادي



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الإدارة التعليمية :

اسم الطالب رابعياً :

المدرسة :

رقم الجلوس :

توقيع الملاحظين :

..... - 1

..... - 2

توقيع الملاحظين بصحة بيانات الطالب
كما وردت رقم جلوس الطالب
و مطابقة عدد أوراق كراسة الإجابة عند
استلامها من الطالب

Question 1:

(A) Complete the following:

- 1- is used to measure electrical potential difference.
- 2- At the beginning of a chemical reaction, the concentration of the products is%.
- 3- Iron rusting is a result of chemical reactions.....

(B) What happens in the following cases:

- 1- Reducing the length of an electrical resistance wire relative to the current intensity

.....
.....

- 2- Deficiency in growth hormone secretion from the pituitary gland during childhood

.....
.....

- 3- A person is exposed to a frightening situation, such as an attack by a vicious dog

.....
.....

(C) Explain with balanced symbolic equations the effect of heat on each of the following:

- 1 - Green copper carbonate

.....
.....

- 2 - Red mercuric oxide

.....
.....

Question 2:

(A) Write the scientific term for the following statements:

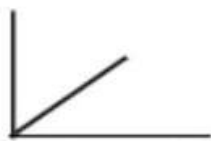
- 1- The amount of electricity flowing through a cross-section of a conductor in one second.
(.....)
- 2- Arrangement of the metallic elements in descending order of their chemical activity.
(.....)
- 3- The science that studies the transmission of hereditary traits from one generation to the next, by studying the similarities and differences between parents and offspring
(.....)

B) Give reasons for the following:

- 1- Some circuits have a sliding rheostat.
.....
- 2- Ionic compounds react faster than covalent compounds.
.....
- 3- Magnesium replaces copper in its salt solutions, but the reverse does not occur.
.....

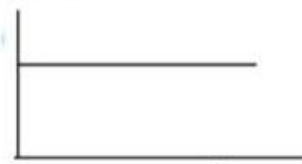
(C) 1- Explain the method of connecting the cells through the following figures:

e.m.f.



connection in

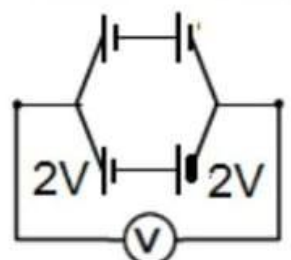
e.m.f.



connection in

2) Calculate the electromotive force in the opposite electrical circuit:

2 volt 2 volt



.....

Question 3:

(A) Choose the correct answer (by shading the letter that indicates the answer):

1- Calcitonin is secreted by

- (A) Pancreas
- (B) Liver
- (C) Thyroid gland
- (D) Pituitary gland

2- The reaction $\text{Cl}_2 + 2\text{e}^- \longrightarrow 2\text{Cl}^-$ represents the process of

- (A) Oxidation
- (B) Reduction
- (C) Decomposition
- (D) Substitution

3- When copper filings is added to dilute hydrochloric acid, is formed

- (A) Copper hydroxide
- (B) Copper carbonate
- (C) Copper chloride
- (D) No reaction occurs

(B) Extract the odd word out in each of the following:

1 - Nature of the reactants - Concentration of the products - Reaction temperature -

Concentration of the reactants

The odd word out (.....

2 - Ampere - Ohmmeter - Voltmeter - Ammeter

The odd word out (.....

3 - Detached ear lobes - Soft hair - curly hair - Wide eyes

The odd word out (.....

(C) Answer the following:

1- Explain on genetic bases, the result of crossing two pea plants, one of which is tall-stemmed and pure(TT), and the other is short-stemmed (tt) illustrating the genetic composition of the resulting generation

.....

.....

.....

.....

2 - Calculate the time required for passing an electric charge of **24** coulombs to a conductor the current intensity pass through of **2** amperes.

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القاهرة

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Question 4:

(A) Put (√) or (×) In front of the following statements:

- 1- In a dynamo, light energy is converted into electrical energy ()
- 2- An ohmmeter is used to measure electrical resistance in an electrical circuit ()
- 3- Most metal sulphates decompose into metal oxide and carbon dioxide ()

(B) Mention the importance of each of the following:

1 - Oxidase enzyme

.....

2 - Calcitonin hormone

.....

3 - Alternating current

.....

C - Compare between:

1- Oxidation and reduction in terms of definition?

Point of comparison	Oxidation	Reduction
Definition

2- Genetic traits and acquired traits in terms of definition - and give one example of each?

Point of comparison	Genetic traits	Acquired traits
Definition
Example

(الأسئلة انتهت)

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