الإجابة النموذجية وسلم التنفيط لامتحان شهادة البكالوريا دورة 2009 الإجابة النموذجية وسلم التنفيط لامتحان شهادة البكالوريا دورة 2009

الإجابة النموذجية وسلم التنقيط

| العلامة | | عناصر الإجابة | |
|---------|--------|---|------------|
| المجموع | مجزاة | Compared to the | |
| | | الموضوع الثاني | |
| | | التعربين الأول: (04 نقط) | |
| | 0,25×3 | $z_2 = 3 + 3i \cdot z_3 = 3 - 3i \cdot \Delta = (6i)^2$; all the self. | W 1850 |
| ν, | | $z_1 = 3\sqrt{2}e^{-i\frac{\pi}{4}}$ (i. 2) | |
| | 0,5 | | ì |
| | 0,5×2 | $Arg(z_3) = \frac{\pi}{3} \cdot z_3 = \sqrt{2} (\varphi)$ | 2 4 |
| | | $\sin \frac{\pi}{12} = \frac{\sqrt{6} - \sqrt{2}}{4} \cdot \cos \frac{\pi}{12} = \frac{\sqrt{6} + \sqrt{2}}{4}$ | 37 46 |
| | 0,25×2 | 12 4 12 4 | |
| Sav. | 0,25 | $\alpha \in \mathbb{R}^*$ (i.3) | c |
| | 0,25 | $G_{\alpha}\left(\frac{\sqrt{2}}{2}, \frac{\alpha\sqrt{6}+12}{2\alpha}\right)$ (φ | -7 |
| | | $D\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{6}}{2}\right)$ مجموعة النقط G_{α} هي المستقيم ذي المعادلة $X = \frac{\sqrt{2}}{2}$ | j e |
| 04 | 0,75 | 2 | |
| | | التمرين الثاني: (05 نقط) | |
| | 1 | المجموعة المعطاة ممتزة بالمعادلة: 0= 2x + y + 4z وهي مستو p | N. |
| | 0.25-2 | الشعاع الناظم على p هو (2;-1;-4) ، أم ا (4-;-1;-4) الشعاع الناظم على p هو المناطقة على المناطقة المنا | 21 |
| | 0,25×2 | (4) | 10 10 |
| | 0,25×2 | بالحساب نجد $\overline{AB} = -\overline{n}$ ومنه p عمودي على (AB) | E E |
| | 0,5 | 2. معلالة S هي $S = (x-1)^2 + (y-1)^2 + (z-1)^2 = 9$ | 8 |
| | 0,25×2 | منه S سطح کرة مرکزها (1,1,1) ونصف قطرها $R=3$ سطح کرة مرکزها | 9 |
| | 0,5 | | |
| 05 | 0,5 | ک ک ک کر احدادیات کی بحق معاتبه کی۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔ | |

| (مة | العا | عناصر الإجابة | مداور الموضوع |
|---------|--------------------------------------|--|---------------------------------------|
| المجموع | مجزاة | name and and | |
| 89 | 0,5×2 | G با تتكن M نقطة من المستوي Q الذي يمس سطح الكرة S في النقطة G إذن $G\Omega \overline{GM}=0$ ومنه نجد $G\Omega \overline{GM}=0$ | |
| | 0.25 | $\lim_{x\to +\infty} g(x) = +\infty$ التمرين الثالث: (17) نقط) أ $\lim_{x\to +\infty} g(x) = +\infty$ | |
| | 0.25×3 | $g'(x) > 0 \cdot g'(x) = 2 - \frac{1}{x}$ ب $g'(x) > 0 \cdot g'(x) = 2 - \frac{1}{x}$ | 20 |
| | 0.25 | ج) لابنا $x = +\infty$ $\lim_{x \to +\infty} g(x) = 1$ و g مقر لیدۂ تماما علی $g(x) = +\infty$ $0 = 1$ این $g(x) \ge 2$ و . هـ . م | 17 16 |
| | 0,5 | $f(x) = \frac{6-\frac{1}{x}}{2 + \frac{\ln x}{x}}$ كتابة على $f(x)$ الشكل $f(x)$ | ** |
| | 0.5+0.25 | ب) $\lim_{x \to +\infty} \int (x) = 0$ انستنتج وجود مستقیم مقارب للمنحشی معادلته $y = 0$ | |
| | 0,5 | $f'(x) = \frac{12 - 12 \ln x}{(2x + \ln x)^2} (\xi$ | 9 |
| | 0,25 | المجال $[1;e]$ منه f منز ابدة تماما على $[1;e]$ منه f منز ابدة تماما على المجال المجال والمناف | |
| • | 0,25 | على المجال $ \alpha $ على المجال $ \alpha $ منه $ \gamma $ متناقصة تماما على $ \alpha $ على المجال $ \alpha $ | ন্ম |
| 2 I | 0,5 0.5 | د) جنول التغیرات $k\in [x]$ حلین شمایزین بدا و فقط اذا کان $f(x)=k$ | الدوال العدية |
| | 0,5 | ر الله (Δ ₁) معدنة (Δ ₁) معدنة (Δ ₁) معدنة (Δ ₁) | , , , , , , , , , , , , , , , , , , , |
| | 0,5 | $h(x)$ $\frac{6}{2e+1}$ الدالة $h(x)$ $\frac{6}{2e+1}$ | |
| 07 | 0,5 | 0 $\left(\Delta_2 ight)$ ب- معادلة العمامي $\left(\Delta_2 ight)$ | ST ST |
| | 01 | (\mathcal{C}_h) و (\mathcal{C}_f) ، (Δ_2) ، (Δ_1) ج- رسم (\mathcal{C}_h) و (\mathcal{C}_f) | 22 |
| | 0,5 0,5 0.25×3 0,75 0,75 | لتمرین الرابع: (40 نقط) $y - ke^{x (\ln 2)}$ عثول المعتنة مي $f(x) = e^{x (\ln 2)}$ هي $f(x) = e^{x (\ln 2)}$ هي $f(x) = 2^{3k-2}$ يا $e^{x (\ln 2)}$ الله عبد الل | 44 KD (13 |
| 04 | 0.25÷0.5 | ب) [7] م يكافئ [7] ع الماء الماء عليه ماء عليه ماء عليه ماء ماء الماء ا | <u>غ</u> انا |

الإجابة النموذجية وسلم التنقيط لامتحان شهادة البكالوريا المدة : رياضيات الشعبة: تقني رياضي

الإجابة النموذجية وسلم التنقيط

| العلامة | | عناصر الإجابة العلامة | | |
|------------------|----------|--|-----------------|--|
| المجموع | مجزأة | | لوضوع | |
| | | الموضوع الأول | 3 1 | |
| | | الثمرين الأول : (04) نقط) | 5 | |
| 04 | 1 . | $z_2 = 1 - i \cdot z_1 = 1 + i \cdot \Delta' = i^2$ (i) | 3 | |
| VII | 1 | $z'' = -2 + i \cdot z' = -2 - i (\varphi)$ | الأعداد المركبة | |
| | 1 | (7) هي نصف المستقيم الذي مبدؤه A و شعاع توجيهه $ar{v}$ يحقق (Γ) هي نصف المستقيم الذي مبدؤه (Γ) | 2. | |
| 8 | 1 | ب) (E) هي محور قطعة المستقيم [AB] | o a 5 | |
| **2 | ie ie | 1 31 | 30 | |
| | | التعرين الثاني :(4)نقط) | 9 1 | |
| in _{ns} | 0.5 |) أ-41×49=2009 الأعداد الطبيعية التي مربع كل منها يقسم 2009 هي أو7 | | |
| | 2) 2) | $u_1^2 u_0^2 + u_1 u_0^2 + 35 u_0^2 - 2000$ | 6 | |
| 04 | 0.5 | $u_0^2 \cdot a^2 + u_0 \cdot a^2 + 35a^2 = 2009$ | ** B | |
| U4 | | 7000 | 3 | |
| | 0.75 | $a=1$ و منه $a=1$ او $a=1$ مرفوض $u_0^2 + u_0 + 35 = \frac{2009}{a^2}$ | المنتظيات | |
| | | | H | |
| 1.4 | 0.25 | $a = 7; u_0 = 2$ | , 0 E | |
| | 0.75 |) عبارة _{ال} ابة العدد n عبارة العدد (1 | × 2× 300 | |
| | 0.75 |) أـ عبارة ليم بدلالة n | 24 | |
| | 0.5 | л=3 - — | £ | |
| | | التعرين الثالث (77) نقاط) | | |
| | 0.5+0.5 | ω(0;1) و (0;1) مركز تناظر | i i | |

| العلامة | | عناصر الإجابة | معاور الموضوع | |
|---------|--|---|---------------------------------------|--|
| المجموع | مجزاة | и п | | |
| | - | | | |
| | 1 g 1 | 2) تغيرات الدالة: | . 10 | |
| | 0.5+0.25 | $f'(x) = \frac{e^{2x} + 1}{(e^x + 1)^2}$ حساب النهاية و | | |
| 1 | 0.25+0.5 | جدول التغيرات و إشارة المشتق | | |
| | 0.5 | نيوان أن المستقيم الذي معادلته $y=x$ مقارب عند $+\infty$ | 85 | |
| 2 | 0.5 | حساب و استنتاج المستقيم المقارب عند ٥٥- | 100 ³ G E | |
| | 0.25×4 | 4) تبيان أن للمعاللة f(x) = 0 حل وحيد 4 -1.7< α< -1.6: α استعمال مير هذة القيم المتومسطة | | |
| 8 | | | | |
| | 0.5 | 5) رسم المنحنى | 22 | |
| A# | | · · · · · · · · · · · · · · · · · · · | , | |
| 07 | | | (8) (8) (4) | |
| | | | 3 | |
| | | 34 | S. 11 | |
| 8 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 3 | |
| | | -6 -5 -4 -3 /3 -1 /1 1 2 3 4 5 | 7 | |
| | i Maria da | -6 -5 -4 -3 /2 -1 /0 1 2 3 4 5 <u>1</u> | الدوال العدية | |
| | 10 | | 1,1 | |
| | 120 | -2 | 7 1 | |
| | | | | |
| th . | 0.5 | $f(x) = x + \frac{2e^{-x}}{e^{-x} + 1}$ این ان $f(x) = x + \frac{2e^{-x}}{e^{-x} + 1}$ | | |
| - | 0.5 | $e^{-x}+1$ | 2 U S | |
| | 28 | 7)حساب المساحة : | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| | 0.5+0.25 | | | |
| ¥. | 0.5 (0.25. | a a | | |
| * | 0.5 | $A(\alpha) = 2\left[\ln 2 - \ln(e^{\alpha} + 1)\right] = 2\ln(-\alpha)$ | | |
| | 0.25 | حصر العدد (A(a) | × | |
| P | | التمرين الرابع (50نقط) | | |
| | 0.25×2+0.5 | | - | |
| 05 | 4×0.25 | مع التعليل (تعيين شعاع توجيه (Δ)) | الهندسة الفضائرة | |
| | 2 ×0.25 + 0.5 | (3 مع التعليل (\vec{u} مع التعليل (\vec{u} مستحيلة الحل) (3 | ्र इब् | |
| 42 | 1 | 4 مع التعليل | 1,5 | |
| *** | 0.5×2 | <u>کهاست</u> عمل المسافة بین نقطة و مستوی کل الإجابات صحیحة . | 1 | |

PART ONE: Reading

(14 points)

Read the text carefully then do the activities below.

Education in the United States is provided mainly by the government with control and funding from three levels: federal, state, and local. School attendance is obligatory at the elementary and high school levels (often known outside the United States as the primary and secondary levels).

The ages for compulsory education vary by state, beginning at ages five to eight and ending at the ages of fourteen to eighteen. A growing number of states are now requiring school attendance until the age of 18. Students have the options of having their education held in public schools, private schools, or home school.

In most public and private schools, education is divided into three levels: elementary school, junior high school (also often called middle school), and senior high school. Post secondary education is

better known as 'college' or 'university' in the United States. Most parents send their children to either a public or private institution. One tenth of students are enrolled in private schools. Approximately 85 % of students enter the public schools largely because they

are free Parents may also choose to educate their own children at home; 1.7 % of children are educated in this manner.

> http://www.encyclopedia.com/doc/1E1-Educatio.html. (7points)

A) Comprehension

1-Circle the letter that corresponds to the right answer.

a. a newspaper article

b. a radio report

c. a web-article

2-Are the following statements true or false? Write T or F next to the corresponding sentence letter.

- a) Education in the USA is compulsory only at the elementary school.
- Parents can educate their children at home.
- There are more pupils in private schools than in public schools.
- d) Most of the pupils go to public schools because they don't have to pay fees.

3-In which paragraph is it mentioned that...

- a) the ages of compulsory education are not the same in all states?
- b) very few parents educate their children at home?

4-Answer the following questions according to the text.

- a) At which levels is school attendance obligatory? b) Why do many American pupils choose public schools?

5-What or who do the underlined words refer to in the text? b. they (§4)

a. their (\$2)

B) Text Exploration

(7points)

1-Find in the text words, phrases or expressions that are closest in meaning to:

a. obligatory (§2) b. increasing (§2) c. nearly (§4) d. way (§5)

2-Complete the chart as shown in the example.

| NOUNS | VERBS |
|---------------|------------|
| Satisfaction | To satisfy |
| Requirement | |
| Division | |
| Qualification | |
| Education | |

3-Give the correct form of the verbs in brackets.

- Years ago, it (bc) difficult for people to send their children to school.
- b) Some children (get) better results if their parents take care of them.

4-Underline the silent letters in the flowing words.

a. eight b knowledge c. foreign d. calm

5- Imagine what A says and complete the following dialogue.

A: Many students Is it true?

- B: No. our school regulations are not very strict.
- A: This means that
- B: You're wrong, there is no disorder at all; everybody is behaving correctly.
- A: What about?
- B: There is a mutual respect between teachers and pupils. A: That's why

B: True, the pupils get good results.

PART TWO: Written Expression (6points)

Write a composition of about 100 words on one of the following topics.

Topic one: The Algerian educational system consists of three levels (primary, middle and secondary). You have just completed the third level. Write a composition in which you describe the level you liked best. You may talk about the following: souvenirs — friends — teachers — programmes — exams

Topic two: Your neighbour refuses to send his children to school for some reasons. You try to convince him that education is important in today's world. Write the dialogue that took place between him and you.

الديوان الوطني للامتحانات والمسابقات

وزارة التربية الوطنية

امتحان بكالوريا التعليم الثانوي الشعة: لفات أجنبية

اختبار في مادة: اللغة الانجليزية

المدة: 3 ساعات ونصف على المترشح أن يختار أحد الموضوعين التاليين:

الموضوع الأول

PART ONE: Reading

(14 points)

Read the text carefully then do the activities below.

Counterfeit medicines are a threat to health, and the risks they pose have been largely underestimated. Counterfeits containing no active ingredient will fail to cure disease; those with wrong ingredients may cause mental and physical damage—and even death. No area of the world is unaffected. as exposed by the recent deaths in the United States.

Growing evidence shows that the problem is disproportionately severe in developing and emerging-market countries, which also have the highest burden of infectious diseases. National governments have the primary responsibility-both in stopping criminal manufacturing and distribution and in protecting their citizens from counterfeit products. The Food & Drug Administration (FDA) is highly active in fulfilling this responsibility, but this is not true in many other countries in the world.

Multilateral organizations such as the World Health Organization (WHO), the World Customs Organization (WCO), and the International Criminal Police Organization (Interpol) must do more to expose the problem and help countries tighten regulatory controls.

Companies affected by counterfeiting in developing countries are expending private resources to perform roles which should be carried out by police and regulators, including assisting multilateral organizations in building capacity among local customs and regulatory officials.

A) Comprehension (7points)

1-Circle the letter that corresponds to the right answer.

The text is about..... a fake medicines b. medicines c. healthcare

2-Are the following statements true or false? Write "T "or "F" next to the corresponding sentence

- letter.
 - The risks of counterfeit medicines are seriously taken into consideration. Developing countries are suffering a lot from infectious diseases.

 - Governments should protect people from counterfeit products. d) The WHO. WCO, and Interpol efforts are insufficient.
- 3-Answer the following questions according to the text.
- a) Why can't some counterfeit medicines cure diseases?
- b) What can wrong ingredients cause?
- c) What must multilateral organizations do? 4-Reorder the following ideas according to the text.
 - a) Governments should protect people from counterfeit medicines.
 - b) Counterfeit medicines are not only inefficient but dangerous as well.
 - International organizations have to make more efforts.

5-Choose a title for the reading text.

b) Medical Business a) International Cooperation

c) Counterfeit Medicines

(6points)

B) Text Exploration (7points)

1-Find in the text words, phrases or expressions that are closest in meaning to the following: b-illnesses (§2) a-fakc (§1) c-show (§3) d-helping (§4)

2-Complete the chart as shown in the example.

| Verb | Adjective | Noun |
|----------------|--------------|---|
| To manufacture | manufactured | manufacturer |
| To affect | | *************************************** |
| ********* | exposed | |

3-Connect each pair of sentences using the connector in brackets. Make changes where necessary,

- a) Governments have made a lot of efforts. They have been unable to stop the import of counterfeit
- b) Local authorities are encouraging citizens. They want them to be more active. (to)

4-Classif

| [medicines | 10-3 | ingredients | F-10-20-14 | controls | 1/1/05/2 | diseases] | |
|------------|------|-------------|------------|----------|----------|-----------|---|
| | | | | · T | | /iz/ | - |

5- Fill in each gap with one word from the list below.

[counterfeiting — it — to — people]

Counterfeiting is not limited to medicines only. ...1... is also affecting other products like clothes and food. Thanks...2...some associations,...3...have become aware of the dangerous effects of ...4...

PART TWO: Written Expression

Write a composition of about 100 words on one of the following topics.

Topic one: Why do some people buy counterfeit products? The following notes may help you to answer the question. (cheap / easily found /no big difference /same shape...)

Topic two: What can be done to fight counterfeiting? Make suggestions.

مساحة اشهارية