المملكة المغربية
وزارة التربية الوطنية
والتكوين المهني

المركز الوطني للتقويم
والامتحانات والتوجيه

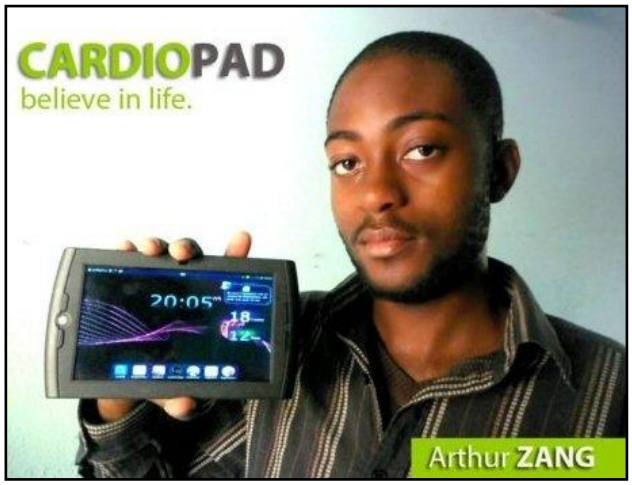
الامتحان الوطني الموحد للبكالوريا

الدورة العادية 2016

- الموضوع -

NS12

المادة	اللغه الإنجليزيه	مدة الإنجاز	2
الشعبة أو المسلك	كل مسالك الشعب العلمية والتقنية والأصيلة	المعامل	2

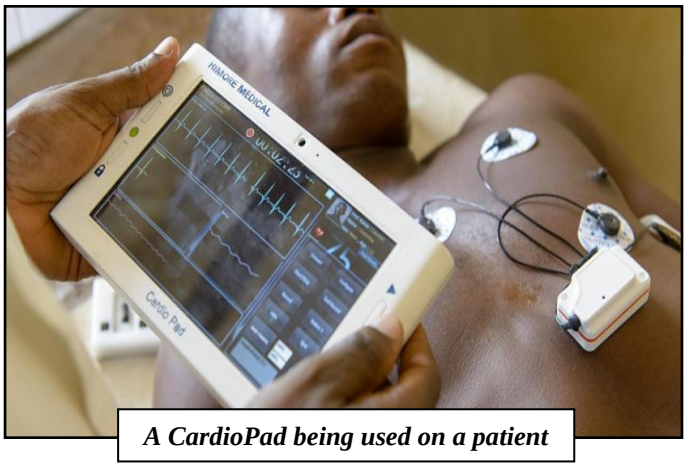


[1] Arthur Zang, a 24-year-old Cameroonian computer engineer, invented the CardioPad. The idea for this invention came to his mind while he was watching a television programme about electrocardiographs during a visit to a hospital in 2007.

[2] The CardioPad is a computer tablet. It diagnoses patients with heart diseases in remote areas where access to medical services is very restricted. When a medical examination is performed on a patient in a remote village, the results are transmitted from the nurse's tablet to that of the doctor who then interprets **them**. The device is believed to be Africa's first medical tablet that can send the results of cardiac tests to a cardiologist via internet connection. The heart specialist makes a diagnosis and sends it back with a prescription to the nurse treating the patient.

[3] "When I decided to design the tablet, I didn't have the knowledge because I'm basically a computer science engineer. I learned a lot from an online free programme on electronics provided by the Indian Institute of Technology. The funding of my project was difficult. I went to the banks, but they wanted all sorts of guarantees. So I posted a video about my project on Facebook to raise funds." This led to a $20,000 grant from the Cameroonian government, which Zang used to produce 20 tablets, two of **which** are being tested in hospitals in Cameroon.

[4] The Cameroonian scientific community has recognized the CardioPad as extremely effective. Thanks to this device, many patients living in remote areas do not have to travel to urban centers to seek medical examinations. Zang believes that his invention could save numerous human lives.



A CardioPad being used on a patient

[5] Mafo Abeni, a 55-year-old heart patient in a rural area of Cameroon, said "I've had cardiovascular disease for about a year now. It is too costly and difficult for me to see a heart specialist in the city; the CardioPad saves me time and money."

[6] Mr. Zang says he has been contacted by private investors. But he is more interested in investors who share his vision, which is not of money, but of better ways to help improve people's lives.

Adapted from: *www.rolexawards.com & voanews.com*

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I. COMPREHENSION (15 POINTS)

BASE ALL YOUR ANSWERS ON THE TEXT.

A. CHOOSE THE BEST TITLE FOR THE TEXT. (2 pts)

1. A new medicine for heart diseases
2. A new way to manage hospitals
3. A new medical invention

The best title is . . . . . .

B. ARE THESE STATEMENTS TRUE OR FALSE? JUSTIFY. (3 pts)

1. Zang got knowledge of electronics online.

. . . . . .

2. The banks wanted to finance Zang's project without conditions.

. . . . . .

3. Mafo Abeni is positive about the CardioPad.

. . . . . .

C. ANSWER THESE QUESTIONS. (3 pts)

1. How did Zang get the idea of the CardioPad?

. . . . . .

2. What does the heart specialist do with the information he/she receives from the nurse?

. . . . . .

3. How did Zang collect money for his project?

. . . . . .

D. COMPLETE THE FOLLOWING SENTENCES. (2 pts)

1. With the CardioPad, heart patients in distant areas no longer need to . . . . . .

. . . . . .

2. Zang is not interested in making money, but . . . . . .

. . . . . .

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E. FIND IN THE TEXT WORDS OR PHRASES THAT MEAN THE SAME AS (3 pts)

1. limited (paragraph 2) : . . . . . .
2. look for (paragraph 4) : . . . . . .
3. expert (paragraph 5) : . . . . . .

F. WHAT DO THE UNDERLINED WORDS IN THE TEXT REFER TO? (2 pts)

1. **them** (paragraph 2) : . . . . . .
2. **which** (paragraph 3) : . . . . . .

II. LANGUAGE (15 POINTS)

A. GIVE THE CORRECT FORM OF THE WORDS IN BRACKETS. (2 pts)

1. Morocco was the first country in the world to recognise the (independent) . . . . . of the USA.
2. Developing (renew) . . . . . energy is among the priorities of the Moroccan government.

B. FILL IN THE GAPS WITH APPROPRIATE WORDS OR PHRASES FROM THE LIST. (2 pts)

1. Many . . . . . in the United States have been struck by the hurricane this year.

   problems - disasters - areas

2. MSF . . . . . Médecins Sans Frontières.

   makes up - stands for - calls for

C. FILL IN THE GAPS WITH APPROPRIATE WORDS OR PHRASES FROM THE LIST. (2 pts)

1. Moha Oulhoucine, ... everyone calls "The Maestro", died in February 2016.

   whose - whom - which

2. Many people today can't imagine . . . . . without their mobile phones.

   to live - living - will live

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D. PUT THE VERBS IN BRACKETS IN THE CORRECT TENSE. (2 pts)

1. By June 2018, the workers (complete) . . . . . the high-speed rail line between Tangier and Casablanca.
2. Leila first (meet) . . . . . her husband when she was at university in 1996.

E. REWRITE THE SENTENCES BEGINNING WITH THE WORDS GIVEN. (3 pts)

1. Ahmed Sefrioui wrote *La Boîte à Merveilles* in 1954.

   La Boîte à Merveilles . . . . . .
2. Despite being an expert, Jim couldn't recover his files from his hard disk.

   Although Jim . . . . . .
3. We lost the game because our goalkeeper was not in good physical condition.

   If . . . . . .

F. MATCH EACH EXPRESSION WITH ITS APPRORIATE FUNCTION. (2 pts)

Expressions	Functions
1. "Karim will definitely join us this evening." 2. "I shouldn't have tried to fix the computer myself."	a. expressing regret b. expressing apology c. expressing certainty d. expressing opinion

1. . . . . 2. . . . . .

G. WRITE APPROPRIATE RESPONSES TO THE FOLLOWING SITUATIONS. (2 pts)

1. Reading books is better than watching movies.

   You (express your opinion) : . . . . . .
2. Your friend can't decide whether to buy a tablet or a laptop.

   You (give advice) : . . . . . .

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III. WRITING (10 POINTS)

TASK 1: (4 pts) Complete the following paragraph about your favourite sport.

My favourite sport is . . . . . I prefer this sport for the following reasons.

First, ...

. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . . . . .

TASK 2: (6 pts) Respond to this email.

Hello everyone,
My two sons spend too much time chatting and playing video games. I'm really worried about their studies and social life. What should I do? Please, help.
Worried father

« Plain Text Check Spelling

Dear worried father,

. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . . . . .

DO NOT WRITE YOUR NAME OR SIGN YOUR EMAIL.

Send Save Now Discard

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Science 2016 By Teacher Houmad

I. Comprehension :

A. The best title is: 3. A new medical invention

B. **1. True**, "I learned a lot from an online free programme on electronics."

2. False, " I went to the bank, but they wanted all sorts of guarantees."

3. True, " The Cardiopad saves me time and money."

C. **1.** The idea for this invention came to his mind while he was watching a television programme about electrocardiographs during a visit to a hospital in 2007.

2. The heart specialist interprets the results, makes a diagnosis and sends it back with a prescription to the nurse treating the patient.

3. He posted a video about his project on Facebook. This led to $20,000 grant from the Cameroonian government.

D. **1.** …travel to urban centers to seek medical examinations.

2. ….in investors who share his vision of better ways to help improve people's lives.

E. **1.** limited: restricted **2.** look for: seek **3.** expert: specialist

F. **1.** them: results **2.** which: tablets

II. Language:

A. **1.** independence **2.** renewable

B. **1.** areas **2.** Stands for

C. **1.** whom **2.** living

D. **1.** will have completed **2.** met

E. **1.** La boite a Merveille **was written** by Ahmed Sefrioui in 1954.

2. **Although Jim was an expert**, he couldn't recover his files from his hard disk.

3. **If** our goalkeeper **had been** in good physical condition, we **wouldn't have lost** the game (wouldn't or might not) Or: **If** our goalkeeper **had been** in good physical condition, we **could have won** the game (could, would or might)

F. **1. c.** expressing certainty **2. a.** expressing regret

G. There could be more than one possible answer.

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