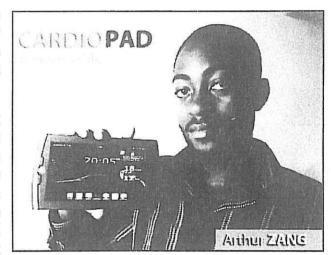
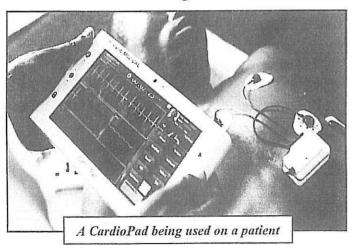


- [1] Arthur Zang, a 24-year-old Cameroonian computer engineer, invented the CardioPad. The idea for this invention came to his mind while he was watching a television programme about electrocardiographs during a visit to a hospital in 2007.
- [2] The CardioPad is a tablet computer. It diagnoses patients 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 centres to seek medical examinations. Zang believes that his invention could save numerous human lives.



- [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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| خاص بكتابة الأمتحان | | | الاعتمان الوطني الموحد للبكالوريا الدورة العادية 2016 | | | المملكة المفرية وزارج التربية الولهنية (130ماه ١٩٤٨ ١ ١٥٥ماه ١٠٥٥م ١ ١٥٥ماه ١٠٥٥م ١ ١٥٥ماه ١٥٥م ١ ١٥٥م | |
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| 5 | 2 على | الصفحة: | | صحح و توقيعه: | | | |
| I. CO | MPREHEN | SION | (15 POINTS |) | | | |
| | | | DACE ALL VO | UR ANSWERS ON THI | c TEV | VT | |
| | IOOSE TU | r Dregg | TITLE FOR TH | | L IEA | | |
| | | | heart diseases | E TEXT. (2 pts) | | | |
| 1 | A new med | | | | | | |
| 3 | A new med | 100 | 200 | | | | |
| > | The bes | t title is . | | ***** | | | |
| B. Al | RE THESE : | STATEN | IENTS TRUE C | R FALSE? JUSTIFY. | (3 | pts) | |
| 1. | Arthur Zang | g got kno | wledge of electro | nics online. | | | |
| | | | | | | | |
| 2. | | | | roject without condition | | | |
| 3. Mafo Abeni is positive about the CardioPad. | | | | | | | |
| | | | | | | | |
| C. A | NSWER TH | ESE QU | ESTIONS. | (3 pts) | | | |
| 1. | | - | ne idea of the Car | dioPad? | | | |
| 2. | What does | the heart | specialist do with | the information he/she | | res from the nurse? | |
| H | | | | | | | |
| 3. | | | et money for his p | | | | |
| D. C | | | | NTENCES. (2 pts) | | | |
| 1. | 1. With the CardioPad, heart patients in distant areas no longer need to | | | | | | |
| | | | | | | | |
| 2. | 2. Zang is not interested in making money, but | | | | | | |
| | | | | | | | |
| | | | | | - | | |

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| 5 | الصفحة: 3 علم | β الامتحان الوطني الموحد للبكالوريا - الدورة العادية 2016 - الموضوع مادة:اللغة الإنجليزية – كل مسالك الشعب العلمية والتقنية والأصيلة - NS 12 - |
|-----------------|----------------------|--|
| E. FIND IN | THE TEXT WOF | RDS OR PHRASES THAT MEAN THE SAME AS (3 pts) |
| 1. limited | (paragraph 2): | *************************************** |
| 2. look for | (paragraph 4): | |
| 3. expert | (paragraph 5): | 1111111111111111111 |
| F. WHAT DO | THE UNDERLI | NED WORDS IN THE TEXT REFER TO? (2 pts) |
| 1. <u>them</u> | (paragraph 2) | |
| 2. <u>which</u> | (paragraph 3): | |
| II. LANGUAG | E (15 POINT | TS) |
| A. GIVE THE | CORRECT FOI | RM OF THE WORDS IN BRACKETS. (2 pts) |
| 1. Morocco w | as 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 TI | HE GAPS WITH | APPROPRIATE WORDS OR PHRASES FROM THE LIST. (2 pts) |
| 1. Many | , i | n the United States have been struck by the hurricane this year. |
| | problen | ns - disasters - areas |
| 2. MSF | | Médecins Sans Frontières. |
| | makes u | p - stands for - calls for |
| C. FILL IN TI | HE GAPS WITH | APPROPRIATE WORDS OR PHRASES FROM THE LIST. (2 pts) |
| 1. Moha Oulh | oucine, | everyone calls "The Maestro", died in February 2016. |
| | whose - | whom - which |
| 2. Many peopl | e today can't imag | gine without their mobile phones. |
| | to live | - living - will live |

لا يكتب أي شيء في هذا الإطار

| | | | | <i>Y</i> | <u> </u> | | | |
|------|--|------------|------------------|---|---------------------------------------|--|---|--|
| | | | | | | | | |
| | 5 | علی | الصفحة: 4 | - 2016 - الموصوع ية والأصيلة - NS 12 - | - الدوره العاديا تب العلمية والتقن | الامتحان الوطني الموحد للبكالوريا مادة:اللغة الإنجليزية — كل مسالك الشع | β | |
| D. F | PUT T | HE VER | BS IN BRAC | CKETS IN THE CORRECT | TENSE. (2 | 2 pts) | | |
| | 1. By June 2018, the workers (complete) | | | | | | | |
| 2. 1 | Leila f | irst (meet |) | her husband when | she was at un | iversity in 1996. | | |
| E. F | 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 | | | | | | | |
| A | Although Jim | | | | | | | |
| | | | | goalkeeper was not in good p | | | | |
| | F. MATCH EACH EXPRESSION WITH ITS APPRORIATE FUNCTION. (2 pts) | | | | | | | |
| | Expressions Functions | | | | | | | |
| | | | | | | a. expressing regret | | |
| | 1. " | Karim wil | ll definitely jo | oin us this evening." | | b. expressing apology | | |
| | 2. " | I shouldn' | t have tried to | o fix the computer myself." | | c. expressing certainty | | |
| | | | | | | d. expressing opinion | | |
| 1 2 | | | | | | | | |
| G. V | VRIT | E APPRO | OPRIATE RI | ESPONSES TO THE FOLL | OWING SI | TUATIONS. (2 pts) | | |
| | 1. R | leading bo | ooks is better | than watching movies. | | | | |
| | Y | ou (expre | ess your opini | on): | | | | |
| | 2. Y | our friend | d can't decide | whether to buy a tablet or a l | aptop. | | | |

You (give advice):....

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| β الامتحان الوطني الموحد للبكالوريا - الدورة العادية 2016 - الموضوع الصفحة: 5 على 5 مادة:اللغة الإنجليزية – كل مسالك الشعب العلمية والتقنية والأصيلة - NS 12 - | | | | | |
|--|--|--|--|--|--|
| 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, | | | | | |
| 111315, | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 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 | | | | | |
| B I U J- T-TB TD ▽ 氫 巨 巨 豆 區 低 臣 葦 冨 TS >1 11 《Plain Text Check Spellin | | | | | |
| Dear worried father, | | | | | |
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| | | | | | |
| | | | | | |
| DO NOT WINTER VOLID NAME OF CICK VOLID EMAIL | | | | | |
| DO NOT WRITE YOUR NAME OR SIGN YOUR EMAIL. Send Save Now Discard | | | | | |