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المملكة المغربية وزارة التربية الوطنية والتكوين المهني والتعليم العالي والبحث العلمي المركز الوطني للتقويم والامتحانات	الامتحان الوطني الموحد للبكالوريا الدورة العادية 2021	خاص بكتابة الامتحان
NS 12	الموضوع	I*

HHHHHHHHHHHHHHHHHHHH

الإسم الشخصي والعائلي: .....
تاريخ ومكان الازدياد: .....

رقم الامتحان: .....

المادة		مدة الإنجاز		المعامل	
الشعبة والمسلك	اللغة الإنجليزية كل مسالك الشعب العلمية والتقنية	2h		2	

لمادة: اللغة الإنجليزية الشعبة والمسلك: كل مسالك الشعب العلمية والتقنية	النقطة النهائية على 20: بالأرقام..... والحروف..... (على المصحح التأكد من أن النقطة النهائية على 20)	خاص بكتابة الامتحان
NS 12 — ورقة الإجابة	اسم المصحح وتوقيعه:	الصفحة: 2 على 5

I. COMPREHENSION (15 POINTS)

BASE ALL YOUR ANSWERS ON THE TEXT.

A. CHOOSE THE BEST ANSWER. (1 pt)

The text is about

a. an invention for the visually-impaired.
b. a visually-impaired Japanese woman.
c. a famous robotics company in Japan.

The best answer is: .....

B. ANSWER THESE QUESTIONS. (3 pts)

1. When did Chieko first have the idea of the smart suitcase?
.....
2. What will be *Alps Alpine*'s contribution to the design of the smart suitcase?
.....
3. When will people be able to buy the smart suitcase?
.....

C. FILL IN THE CHART WITH THE RIGHT INFORMATION FROM THE TEXT. (1 pt)

Name of company	Contribution to design the smart suitcase
1. *IBM Japan*	*Artificial Intelligence*
2. *Shimizu*	.....
3. *Omron*	.....

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

1. Guide dogs help visually-impaired people to move easily.
.....
2. The smart suitcase will be able to recognise people coming towards its users.
.....
3. *Mitsubishi Motors* technology will allow the smart suitcase to recognise images.
.....

E. COMPLETE THE FOLLOWING SENTENCES WITH INFORMATION FROM THE TEXT. (2 pts)

1. Having access to public services is .....
2. The ..... will allow the smart suitcase to notify its users.

لا يكتب أي شيء في هذا الإطار

الامتحان الوطني الموحد للبكالوريا -الدورة العادية 2021 - الموضوع مادة:اللغة الإنجليزية - كل مسالك الشعب العلمية والتقنية	NS 12	الصفحة: 5 على 5

TASK 2: (6 pts)

Modern technology has facilitated our lives in many ways.
Write a short article for your school magazine about how modern technology has made your life easier.

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

1. By the end of this year, Mrs. Simpson (serve) . . . . . in the local council for 20 years.
2. While Anna (work). . . . . on her language project, her brother was playing games.

F. MATCH EACH EXPRESSION TO ITS APPROPRIATE FUNCTION. (2 pts)

Expressions	Functions
1. "Why don't you try another job?" 2. "I don't share the same view with you." 3. "Can you give me more details about the topic?" 4. "What do you think of online learning?"	a. asking for opinion b. making a request c. disagreeing d. making a suggestion e. complaining

1. . . . . 2. . . . . 3. . . . . 4. . . . . .

G. COMPLETE THE FOLLOWING EXCHANGES. (2 pts)

1. Manager: I'm afraid the report you sent me is full of mistakes.
   Pat: . . . . . .
2. Sandy: My computer can't read PDF documents. What should I do?
   Casey: . . . . . .

III. WRITING (10 POINTS) ***DO TASKS 1 AND 2***

TASK 1: (4 pts) Complete the following paragraph.

Many tourists like to visit Morocco for different reasons. First, ...
. . . . . .
. . . . . .
. . . . . .
. . . . . .
. . . . . .
. . . . . .
. . . . . .

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F. FIND IN THE TEXT WORDS THAT MEAN ALMOST THE SAME AS (3 pts)

1. without any help (paragraph 2) : . . . . . .
2. model (paragraph 3) : . . . . . .
3. risk (paragraph 4) : . . . . . .

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

1. **These aids**: (paragraph 2): . . . . . .
2. **The device**: (paragraph 6): . . . . . .

II. LANGUAGE (15 POINTS)

A. FILL IN THE GAPS WITH THE CORRECT WORDS FROM THE LISTS. (2 pts)

1. Brenda missed her class . . . . . she was taking part in a sports competition.
   therefore - because - whereas
2. The vaccine . . . . . our laboratory has developed is effective.
   whose - whom - which

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

1. Their business failed because of poor (manage) . . . . . and financial problems.
2. *Lord of the Rings* is one of the most (success) . . . . . movies I have ever seen.

C. FILL IN THE BLANKS WITH THE CORRECT WORDS FROM THE LISTS. (2 pts)

1. All the guests appreciated Tom's sense of . . . . . except for Caren.
   joke - humour - amusement
2. Scientists will . . . . . conducting research till they find a cure for cancer.
   keep on - log on - try on

D. REWRITE THE SENTENCES AS INDICATED. (3 pts)

1. The jury has interviewed all the candidates online.
   All the candidates . . . . . .
2. "If I were you, I would buy a laptop instead of a tablet," Danny said.
   Danny advised his friend . . . . . .
3. Although Saida is from a poor background, she managed to pursue her higher education.
   In spite of . . . . . .

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الامتحان الوطني الموحد للبكالوريا
الدورة العادية 2021
- الموضوع -

HHHHHHHHHHHHHHHHHHHH
NS 12

المملكة المغربية
وزارة التربية الوطنية والتكوين المهني والتعليم العالي والبحث العلمي
المركز الوطني للتقويم والامتحانات

المادة	اللغة الإنجليزية	مدة الإنجاز	2h
الشعبة أو المسلك	كل مسالك الشعب العلمية والتقنية	المعامل	2



[1] The company *IBM Japan* and four other partners are developing a smart suitcase that uses Artificial Intelligence (AI) to help people with visual disabilities to travel alone with greater freedom and security.

[2] Visually-impaired people usually face problems using public transport and accessing other services. Luckily, there are canes and guide dogs to lead them around obstacles. **These aids** will soon be complemented with smart suitcases which would help them to travel independently.

[3] Chieko Asakawa, an *IBM Japan* fellow who has vision problems, walks with the assistance of the first prototype of a robotic suitcase equipped with AI. The smart suitcase, which has been inspired by a proposal from Chieko, is equipped with a sensor, a camera, and a battery to detect obstacles and alert its users through tactile sensation. According to its designers, it will also notify users if friends approach or if there are cafés and other facilities nearby through an audio system.



[4] In an interview with a Japanese newspaper, Chieko said that she got the idea when she was pushing a suitcase in front of her during a business trip. She thought that visually-impaired people could walk safely if a suitcase would scan the surroundings for danger.

[5] Different companies are contributing to the development of the suitcase. *IBM Japan* will be responsible for Artificial Intelligence integrated into the suitcase. For its part, *Alps Alpine* will be responsible for tactile technology, *Omron* for image recognition and detection techniques, *Shimizu* for the navigation system, and *Mitsubishi Motors* for automotive technologies.

[6] The smart suitcase will be used at airports, shopping centres, and in other indoor areas. It will later be improved so that users can use it in outdoor areas. **The device** is expected to be on the market in 2022.

Adapted from: *www.inceptivemind.com*

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