

لا يكتب أي شيء  
في هذا الإطار

الصفحة: 5 على 5

NS 194

الامتحان الوطني الموحد للبكالوريا - الدورة العادية 2021 - الموضوع  
مادة: اللغة الإنجليزية - شعبة الهندسة الميكانيكية بمسالكها وشعبة الهندسة الكهربائية بمسالكها  
وشعبة هندسة البناء والأشغال العمومية بمسالكها وشعبة الفلاحة بمسلكها

**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.

خاص بكتابة الامتحان

الامتحان الوطني الموحد للبكالوريا  
المسالك المهنية  
الدورة العادية 2021

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

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I\*

الموضوع

NS 194

رقم الامتحان:

الإسم الشخصي والعائلي: .....

تاريخ ومكان الأيدياد: .....

2

المعامل

2h

مدة  
الإنجاز

اللغة الإنجليزية  
شعبة الهندسة الميكانيكية بمسالكها وشعبة الهندسة الكهربائية بمسالكها وشعبة هندسة البناء والأشغال العمومية بمسالكها وشعبة الفلاحة بمسلكها

المادة  
الشعبة والمسلك

خاص بكتابة الامتحان

النقطة النهائية على 20: بالأرقام..... والحروف.....

(على المصحح التأكد من أن النقطة النهائية على 20)

اسم المصحح وتوقيعه: .....

المادة: اللغة الإنجليزية  
الشعبة والمسلك: شعبة الهندسة الميكانيكية بمسالكها وشعبة الهندسة الكهربائية بمسالكها وشعبة هندسة البناء والأشغال العمومية بمسالكها وشعبة الفلاحة بمسلكها

ورقة الإجابة NS 194

**I. COMPREHENSION (15 POINTS)**

BASE ALL YOUR ANSWERS ON THE TEXT.

**A. CHOOSE THE BEST ANSWER. (1 pt)**

The text is about

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

The best answer is: .....

**B. ANSWER THESE QUESTIONS. (3 pts)**

- When did Chieko first have the idea of the smart suitcase?  
.....
- What will be *Alps Alpine's* contribution to the design of the smart suitcase?  
.....
- 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)**

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

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

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



الصفحة	1
5	
1*	
الامتحان الوطني الموحد للبحرلوربا	المسالك المهنية
الدورة العادية 2021	- الموضوع -
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	NS 194
2h	مدة الإنجاز
اللغة الإنجليزية	المادة
2	المعامل
شعبة الهندسة الميكانيكية بمسالكها وشعبة الهندسة الكهربائية بمسالكها وشعبة هندسة البناء والأشغال العمومية بمسالكها وشعبة الفلاحة بمسلكها	الشعبة أو المسلك

الجمهورية المغربية  
وزارة التربية الوطنية  
والتكوين المهني  
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المركز الوطني للتقويم والامتحانات

[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.



## الامتحان الوطني الموحد للبكالوريا

الممالك المتحدة

الدورة العادية 2021

- عناصر الإجابة -

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الجمهورية العربية  
وزارة التربية الوطنية  
والتكوين المهني  
والتعليم العالي والبحث العلمي

المركز الوطني للتقويم والامتحانات

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

NR 194

2h	مدة الإنجاز	اللغة الإنجليزية	المادة
2	المعامل	شعبة الهندسة الميكانيكية بمسالكها وشعبة الهندسة الكهربائية بمسالكها وشعبة هندسة البناء والأشغال العمومية بمسالكها وشعبة الفلاحة بمسالكها	الشعبة أو المسلك

## KEY AND MARKING SCALE

**PLEASE ACCEPT ANY APPROPRIATE ANSWER NOT MENTIONED IN THIS KEY.**

## I. COMPREHENSION (15 POINTS)

*Testees should not be penalised for spelling or grammar mistakes in the comprehension section.*

A. THE BEST ANSWER: (1 pt) a. an invention for the visually-impaired.

B. WH QUESTIONS: (3 pts; 1 pt each)

1. . . .when she was pushing a suitcase in front of her during a business trip.
2. . . . will be responsible for tactile technology.
3. . . .in 2022

C. CHART FILLING: (1 pt; 0,5 each)

Name of company	Contribution to design the smart suitcase
1. IBM Japan	Artificial Intelligence
2. Shimizu	the navigation system
3. Omron	image recognition and detection techniques

D. TRUE / FALSE STATEMENTS: (3 pts) (1 pt each: 0.5 pt for the right choice and 0.5 pt for the right justification. Consider the justification only if the choice is correct. Quotes from the texts are acceptable.)

1. T. . . .guide dogs to lead them around obstacles.
2. T. . . . . it will also notify users if friends approach.
3. F. . . . . will be responsible for automotive technologies.

E. SENTENCE COMPLETION: (2 pts; 1 pt each)

1. . . . . a problem/challenge for visually-impaired people/ problematic...
2. . . . . audio system . . . . .

F. WORD MEANING: (3 pts; 1 pt each)

1. independently
2. prototype
3. danger

G. WORD REFERENCE: (2 pts; 1 pt each)

1. (guide) dogs and canes
2. the smart suitcase

II. LANGUAGE: (15 POINTS)

A. GAP FILLING: (2 pts; 1 pt each)

1. because
2. which

B. WORD FORMATION: (2 pts; 1 pt each)

1. management
2. successful

C. BLANK FILLING: (2 pts; 1 pt each)

1. humour
2. keep on

D. SENTENCE REWRITING: (3 pts; 1 pt each)

1. All the candidates have been interviewed online ( by the jury).
2. Danny advised his friend to buy/that he should buy a laptop instead of . . ./not to buy a tablet.
3. In spite of her poor background/ her poverty /being poor/ the fact that she was from a poor background, Saida managed. . .

E. TENSES: (2 pts; 1 pt each)

1. will have served
2. was working

F. FUNCTIONS: (2 pts; 1 pt each)

1. d
2. c
3. b
4. a

G. EXCHANGE COMPLETION: (2 pts; 1 pt each)

Accept any appropriate answer.

III. WRITING

(10 POINTS)

The following criteria should be respected while scoring the writing tasks.

Scoring criteria	Task 1	Task 2
Relevance of content to the task	2 pts	3 pts
Appropriateness and variety of vocabulary	1 pt	2 pts
Grammar and mechanics	1 pt	1 pt