1 5 *			وطني العود البكالوريا رة العادية 2021 - الموضوع -	######################################	الملكة المعربة ورارة النوبة الوقسة والكريس المعس والمليد نعالس والمعند العلم المركز الموطنة	
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2	المعامل		التقنية	الشعبة أو المسلك		

- [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 cafe

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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المنت الفقالة الإبلانية العلمية والتقلية المصحح وتوقيعه: 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)		المجه الإستارية							
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 What will be Alps Alpine's contribution to the design of the smart suitcase? When will people be able to buy the smart suitcase? 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 pt 1. Having access to public services is	 Guide dogs help visually The smart suitcase will in the smart suitcase will be smart s	impaired people to move easily. able to recognise people coming towards its users. logy will allow the smart suitcase to recognise images. OWING SENTENCES WITH INFORMATION FROM THE TEXT. (2 provices is	ts)						
<u>&</u>	}								

لا يكتب أي شيء في هذا الإطار

صفحة: 3 على 5	ال NS 12	الامتحان الوطني الموحد للبكالوريا -الدورة العادية 2021 - الموضوع مادة:اللغة الإنجليزية - كل مسالك الشعب العلمية والتقنية	G
F. FIND IN THE TEX	r words th	AT MEAN ALMOST THE SAME AS (3 pts)	-
 without any help model risk 	(paragraph 3	2): 3): 4):	
G. WHAT DO THE UN	DERLINED V	WORDS IN THE TEXT REFER TO? (2 pts)	
1. These aids: (paragr	aph 2):		
2. The device: (paragra	aph 6):		
II. LANGUAGE	(15 POI	(NTS)	
A. FILL IN THE GAPS	S WITH THE	CORRECT WORDS FROM THE LISTS. (2 pts)	
ther 2. The vaccine	efore -	our laboratory has developed is effective.	
B. GIVE THE CORRE	CT FORM OF	F THE WORDS IN BRACKETS. (2 pts)	
1. Their business fail	ed because of p	oor (manage) and financial problems.	
2. Lord of the Rings i	s one of the mo	est (success) movies I have ever seen.	
C. FILL IN THE BLAI	NKS WITH TH	HE CORRECT WORDS FROM THE LISTS. (2 pts)	
jol 2. Scientists will keep o	ke - h n - log o NTENCES AS	conducting research till they find a cure for cancer. The stry on try or try on try or try on try or try on try or try o	
All the candidates			
		op instead of a tablet," Danny said.	
3. Although Saida is	from a poor bac	ckground, she managed to pursue her higher education.	
In spite of	• • • • • • • • • • • • • • • • • • • •		•••

لا يكتب أي شيء في هذا الإطار

5	عادية 2021 - الموضوع NS 12 الصفحة: 4 على العلمية والتقنية				العادية 2021 - الموضوع لعب العلمية والتقنية	الامتحان الوطني الموحد للبكالوريا -الدورة الع مادة:اللغة الإنجليزية - كل مسالك الشعب		
E. PUT	THE	VE	RBS IN I	BRACKETS I	N THE CORRECT TENSI	E. (2 pts)		
1. B	v the e	end o	of this vea	ır. Mrs. Simpso	on (serve)	in the local council for 20 year		
	•			· ·	, ,	ject, her brother was playing games.		
F. MA	TCH I	EAC	CH EXPR	ESSION TO	ITS APPROPRIATE FUNC	CTION. (2 pts)		
				Express	sions	Functions		
	1.	"W	hv don't	you try another	r iob?"	a. asking for opinion		
	2.		•	e the same view	•	b. making a request		
	3.				tails about the topic?"	c. disagreeing		
	4. "What do you think of online learning?"					d. making a suggestion		
						e. complaining		
Pat:	dy: N	 1y c	omputer c	an't read PDF	documents. What should I do			
Cas	ey:			• • • • • • • • • • •				
III. WI	RITIN	G	(10 I	POINTS)	DO TASKS 1 AND 2			
TAS	SK 1:	(4 p	ots)	Complete the	following paragraph.			
	Many	tou	rists like 1	to visit Morocc	to for different reasons. First,			
	• • • • •							

لا يكتب أي شيء في هذا الإطار

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