

[1] Two Moroccan women scientists appeared on the list of the AD (Alper-Doger) Scientific Index in 2023. It lists scientists and researchers internationally, based on their performance and scientific efforts. Rajaâ Cherkaoui El Moursli and Farida El Fassi, professors at Mohammed V University in Rabat, managed to appear on the AD index list for their great contributions to scientific research.

[2] El Moursli was born in Salé in 1954. As a student, she was fascinated and inspired by the American astronaut Neil Armstrong who became the first person to walk on the Moon in 1969. After getting her Bac in mathematics in Rabat, she went to study in Grenoble in France where she obtained her doctorate in physics. In 1982, she returned to Morocco and joined Mohammed V University as a teacher and researcher in nuclear physics, medical physics and high energy physics. From 2013 to 2017, she was the vice president of the university. In 2015, El Moursli received a UNESCO award for "Women in Science" for her key contribution to one of the discoveries in physics. In 2019, she was elected vice president of the Network of African Science



Academies (NASAC), which aims to make science as a way for positive change in Africa.

[3] El Moursli was happy with her position among international scientists. It is an achievement, which awards a long journey of research, work and innovation. She considered her ranking an honor for Morocco and the efforts of researchers and their competencies. "It is a kind of scientific diplomacy that ensures the popularity of Morocco in international academic forums," she explains.



[4] Farida El Fassi, a professor of nuclear physics at Mohammed V University in Rabat, ranked second in the Arab world and in Africa on the AD Index. When she was a child, she had a strong passion for sciences. "When I was little, my parents nurtured my curiosity and problem-solving skills through practicing home tasks such as cooking, doing household chores and planning trips," she explains. El Fassi was born in Larache where she attended middle and high school before moving to Tetouan to complete her university studies. After that, she joined the University of Valencia in Spain and got a doctorate in particle physics there. She then worked as a researcher at the National Center for Scientific Research in Spain. In 2014, she returned to Morocco with the aim of spreading scientific knowledge among Moroccan students.

[5] El Fassi believes that scientific research "requires individual effort as well as the support of the state. Therefore, Morocco needs to make more efforts to provide more research opportunities and suitable working conditions to minimize brain drain."

Adapted from: www.pledgetimes.com and www.twas.org

خاص بكتابة الامتحان			خاد	الامتحان الوطني الموحد للبكالوريا المسالك المهنية الدورة العادية 2023			المملكة المغربية وزارة التربية الوضنية وزارة التربية الوضنية وزارة التربية الوضنية والمنادعة ٨٤٥٥١١٤٥١٤٥١ المنادعة ٨٤٥٥١١٥١ المنادعة المنادعة المنادعة المنادعة المنادعة المنادعة والتربية والمنادعة المنادعة والمنادعة		
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	رقم الامتحان:			الإسم الشخصي والعائلي: تاريخ ومكان الازدياد:					
2	المعامل	<b>2</b> h	مدة الإنجاز	المادة المادة الميكاتيكية بمسالكها وشعبة الهندسة الكهربائية بمسالكها وشعبة هندسة البناء والمسك والأشغال العمومية بمسالكها وشعبة الفلاحة بمسلكها			<b>المادة</b> الشعبة والمسلك		
 ئان	خاص بكتابة الامتحان			النقطة النهائية على 20: بالأرقام والحروف				المادة: اللغة الإنجليزية المسلك: شعبة الهندسة الميكانيكية بمسالكها وشعبة الهندسة المهدسة وشعبة هندسة البناء والأشغال العمومية بمسالكها وشعبة الفلاحة	
	2 <b>على</b> 5	الصفحة:			وتوفيعه:	م المصحح	اسد	ورقة الإجابة	NS 194
	I. COMPREHENSION (15 POINTS)  BASE ALL YOUR ANSWERS ON THE TEXT.  A. COMPLETE THE CHART WITH INFORMATION FROM THE TEXT. (2 pts)								
				*			Date	te of return to Morocco	
	Rajaâ Cherkaoui El Mour Farida El Fassi			rsli					
1. 	When	El Mours	sli returi d d abroad	ned to Mord	urning to Morocco.	ng as vice	e pre	sident of the university.	
				_	JESTIONS. (3 pts)				
	<ol> <li>Why did El Fassi decide to return to Morocco?</li> <li>What does El Fassi suggest to fight brain drain?</li> </ol>								
D. COMPLETE THE SENTENCES WITH INFORMATION FROM THE TEXT. (2 pts)  1. The goal of the Network of African Science Academies is									
2.	2. Doing household chores and planning trips allowed El Fassi to develop								
			M THE	TEXT PH	IRASES OR SENTEN	ICES WI	HIC	CH SHOW THAT (2 pt	ts)
2.	2. EL Fassi loved sciences at an early age (paragraph 4):								
F. FIND IN THE TEXT WORDS THAT MEAN ALMOST THE SAME AS (2 pts)  1. important (paragraph 2):									

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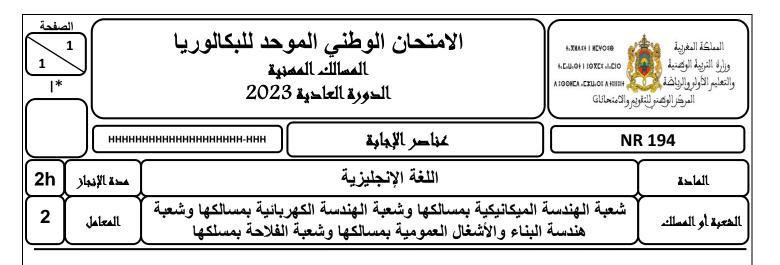
الصفحة:3على5	NS 194	الامتحان الوطني الموحد للبكالوريا -الدورة العادية 2023 – الموضوع مادة: اللغة الإنجليزية - شعبة الهندسة الميكانيكية بمسالكها وشعبة الهندسة الكهربانية بمسالكها وشعبة الفلاحة بمسلكها وشعبة الفلاحة بمسلكها
2. reduce	(paragraph 5)	):
		LINED WORDS IN THE TEXT REFER TO? (2 pts) oh 2):
2. <b>there</b>	(paragraj	ph 4):
II. LANGUAGE	(15 H	POINTS)
A. GIVE THE	CORRECT	FORM OF THE WORDS IN BRACKETS. (2 pts)
1. Climate ch	ange needs a	lot of (collaborate) to reduce its negative effects.
2. Mourad is	a very (compe	etence) manager. His leadership qualities are
motivating.		
B. FILL IN TH	IE BLANKS	WITH THE CORRECT WORDS FROM THE LISTS. (3 pts)
1. I can't help	)	whenever I watch Mr. Bean's shows.
		laugh - laughing - to laugh
2. Khalid wil	l have	the university in two years' time.
3 The electri	o care	leave - leaving - left Morocco will produce are environment friendly.
3. The electri	c cars	where - which - whose
		WITH THE CORRECT WORDS FROM THE LIST. (2 pts) on - performing - keep up - training
• •	s will disappe	ar in the future as robots will replace humans in some
tasks. 2. Workers r market.	need more trai	ining programs to with the rapid changes in the job
D. REWRITE	THE SENTE	ENCES AS INDICATED. (4 pts)
•		nvert the document to PDF?" she said.
2. She exerc	ised a lot. She	e failed to lose weight.
-		
		e lesson because of poor internet connection.
I wish		

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الصفحة:4على5	NS 194	الامتحان الوطني الموحد للبكالوريا -الدورة العادية 2023 - الموضوع مادة:اللغة الإنجليزية - شعبة الهندسة الميكانيكية بمسالكها وشعبة الهندسة الكهربائية بمسالكها وشعبة الفلاحة بمسلكها وشعبة هندسة البناء والأشغال العمومية بمسالكها وشعبة الفلاحة بمسلكها	
4. The school	created a ne	v blog to share activities.	
A new blo	g		
E. CHOOSE T	HE MOST A	PPROPRIATE RESPONSE. (2 pts)	
1. Ahmed: I	m afraid to s	y it, but I've been waiting for a long time to get my phone repaired!	
	•	b. I'm awfully sorry.  c. It's my pleasure.	
		ecan national football team has made it to the World Cup semifinals.	
		b. Lucky you! c. What a pity!	
		OWING EXCHANGES APPROPRIATELY. (2 pts)	
1. Nawal: I fi	nd this film b	oring.	
You: I have	ve the same for	eling. (Suggest something else)	
		4- 4-1	
•		to take a picture)	
Friend: O			
III. WRITING	(10 PC	INTS) DO TASKS 1 AND 2	
TASK 1: (	Complete the	following paragraph. (4 pts)	
Using surv	eillance cam	eras at school has many benefits. First,	

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الصفحة:5على	NS 194	الامتحان الوطني الموحد للبكالوريا الدورة العادية 2023 – الموضوع مادة: اللغة الإنجليزية - شعبة الهندسة الميكانيكية بمسالكها وشعبة الهندسة الكهربائية بمسالكها وشعبة هندسة البناء والأشغال العمومية بمسالكها وشعبة الفلاحة بمسلكها
CASK 2: (6 p	ots)	
Nowadays, pe	ople think tha	at living in big cities is very challenging.
Write an arti	cle to be pub	olished in your school e-magazine about the problems people face in big
cities.		
<b></b>		
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		• • • • • • • • • • • • • • • • • • • •



### KEY AND MARKING SCALE

Accept any appropriate answer not mentioned in this key.

## I. COMPREHENSION (15 POINTS)

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

### A. CHART COMPLETION: (2 pts; 0.5 pt each)

	Birthplace	Date of return to Morocco
Rajaa Cherkaoui El Moursli	Salé	1982
Farida El Fassi	Larache	2014

# B. TRUE OR FALSE: (2 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 text are acceptable.)

- T. She then worked as a researcher at .....in Spain.

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

- 1. (The American astronaut ) Neil Armstrong.
- 2. .....to spread scientific knowledge among Moroccan students.
- 3. ..... Morocco needs to make more efforts .......conditions.

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

- ... .to make science as a way for positive change in Africa.
- ... her curiosity and problem-solving skills.

## E. PICK OUT: (2 pts; 1pt each)

- 1. A long journey of research, work and innovation./ (it's) an achievement
- 2. When she was a child, she had a strong passion for sciences.
- F. WORD MEANING: (2 pts; 1 pt each)
- 1. key
- 2. minimize

- G. WORD REFERENCE: (2 pts; 1 pt each)
- 1. Mohammed V 2. University of Valencia (in Spain)

#### II. LANGUAGE (15 POINTS)

- A. WORD FORM: (2 pts; 1 pt each)
- 1. collaboration
- 2. competent

- B. GAP-FILLING: (3 pts; 1 pt each)
- 1. laughing
- 2. left 3. which

- C. GAP-FILLING: (2 pts; 1pt each)
- 1. performing 2. keep up
- D. SENTENCE REWRITING: (4 pts; 1 pt each)
  - 1. ... to convert the document to PDF/ ....that I should convert ..........
  - 2. ... ...exercising/.....the fact that she exercised.....
  - 3. ... I had attended ....... / .... I had had a good internet connection.
  - 4. .....was created (to share activities).
- **E. APPROPRIATE RESPONSES:** (2 pts; 1 pt each) 1. b. I'm awfully sorry. 2. **a.** Well-deserved!
- F. EXCHANGE COMPLETION: (2 pts; 1 pt each) Accept any correct and appropriate answer.

#### III. WRITING (10 POINTS; Task 1: 4 pts; Task 2: 6 pts)

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