

[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 الدورة العادية 2023			المملكة المغربية وزارة التربية المغربية (320 م 1.00 م ا والتعليم الأولو والرياضة والتقويم والامتحانات (30 م 1.00	
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<u>۔</u> ان	ة الامتد	ص بكتاب	خاد		على 20: بالأرقام والحروف. محح التأكد من أن النقطة النهائية		دة: اللغة الإنجليزية كل مسالك الشعب العلمية والتقنية	
	الصفحة:2على5			اسم المصحح وتوقيعه:			ورقة الإجابة	NS 12
	I. COMPREHENSION (15 POINTS) BASE ALL YOUR ANSWERS ON THE TEXT. A. COMPLETE THE CHART WITH INFORMATION FROM THE TEXT. (2 pts)							
Birthplace Date of return to Morocco)			
Rajaâ Cherkaoui El Mour Farida El Fassi			El Mour	rsli				
B. A	RE TH	ESE ST	ATEMI	ENTS TRU	E OR FALSE? JUST			
1.					•		resident of the university	
2.	El Fass	i worked	l abroad	before retur	rning to Morocco.			
C. A					ESTIONS. (3 pts)			
1.	1. Who was El Moursli's role model when she was young?							
2.	2. Why did El Fassi decide to return to Morocco?							
3.			_	gest to fight	brain drain?			
1.	OMPLI The go	ETE THe al of the	IE SEN' Networ	FENCES V	VITH INFORMATION Science Academies i	ON FROM 's	THE TEXT. (2 pts)	
	develop			-				
	ICK OU	J T FRO	M THE	TEXT PH	RASES OR SENTEN	NCES WHI	CH SHOW THAT (2 p	ots)
2.	EL Fas	si loved	sciences	s at an early	age. (paragraph 4):			

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الصفحة: 3على 5	NS 12	الامتحان الوطني الموحد للبكالوريا -الدورة العادية 2023 – الموضوع مادة:اللغة الإنجليزية - كل مسالك الشعب العلمية والتقنية
1. important	(paragraph 2)	RDS THAT MEAN ALMOST THE SAME AS (2 pts)
	s ity (paragrap	LINED WORDS IN THE TEXT REFER TO? (2 pts) oh 2):
II. LANGUAGE	(15 F	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 motivating.	• . •	etence) manager. His leadership qualities are
B. FILL IN TH	IE BLANKS	WITH THE CORRECT WORDS FROM THE LISTS. (3 pts)
_		whenever I watch Mr. Bean's shows. laugh - laughing - to laugh
2. Khalid wil	l have	the university in two years' time.
3. The electr	ic cars	leave - leaving - left Morocco will produce are environment friendly. where - which - whose
		WITH THE CORRECT WORDS FROM THE LIST. (2 pts) on - performing - keep up - training
1. Many jobs tasks.	s will disappe	ar in the future as robots will replace humans in some
	need more trai	ining programs to with the rapid changes in the job
1. "I think y	ou should co	ENCES AS INDICATED. (4 pts) nvert the document to PDF?" she said.
2. She exerc	ised a lot. She	e failed to lose weight.

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الصفحة:4على5	NS 12	الامتحان الوطني الموحد للبكالوريا -الدورة العادية 2023 – الموضوع مادة:اللغة الإنجليزية - كل مسالك الشعب العلمية والتقنية
-		e lesson because of poor internet connection.
I wish		
4. The school	l created a nev	w blog to share activities.
A new blo	g	
	_	APPROPRIATE RESPONSE. (2 pts)
		ay 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.
	=	ccan national football team has made it to the World Cup semifinals.
You:		-
		b. Poor you! c. What a pity!
		LOWING EXCHANGES APPROPRIATELY. (2 pts)
	ind this film b	
		eeling. (Suggest something
,		
	sks his friend	to take a
`		to take a
•	,	
Friend: O	C	• • • • • • • • • • • • • • • • • • • •
Friend: O	i course.	
III. WRITING	(10 PC	DINTS) DO TASKS 1 AND 2
TASK 1: (4 pts) Co	omplete the following paragraph.
`	- /	eras at school has many benefits.
_		•
First,		
• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •

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الصفحة:5على5	NS 12	الامتحان الوطني الموحد للبكالوريا -الدورة العادية 2023 – الموضوع مادة:اللغة الإنجليزية - كل مسالك الشعب العلمية والتقنية
• • • • • • • • •		
TASK 2: (6 p	ts)	
Nowadays, peo	ople think that l	iving in big cities is very challenging.
Write an artic	cle to be publis	shed in your school e-magazine about the problems people face in big
cities.		