INSTITUT PREPARATOIRE AUX ETUDES D'INGENIEUR DE SFAX	IPEIS	A.U. : 2023/2024 Niveau : 1ère année Epreuve : Anglais Date : 03/01/2024

INSTITUT PREPARATOIRE BIBLIOTHEQUE

DEVOIR DE FIN DE SEMESTRE N°1

PART ONE: READING COMPREHENSION: (18 pts.)

I- Fill in the table on the answer sheet with information from the text.

II- Answer the following questions on the answer sheet.

1- What are the personal and social factors that have encouraged Ms Diagne to set up her new start-up?
2- Was it easy for Ms Diagne to receive any assistance from the local healthcare professionals at the beginning of her career? Justify with details from the text.

III- Say whether the following statements are true or false and justify with details from the text.

1- The number of young Africans who are concerned with their continent's problems is insignificant.
2- Ms Diagne's efforts have gone unnoticed in foreign countries.
3- Ms Diagne's healthcare application has not been available for sale yet.

IV- Complete the paragraph on the answer sheet with information from the text.

V- Pick out from the text details showing that Ms Diagne is ambitious and determined while pursuing her passion.

VI- Choose the best explanation for the following statement:

*** She's ready to lend a hand to those coming up behind her. (&6)**

1- Ms Diagne is not willing to help people especially young African learners who come to work in her enterprise.
2-Ms Diagne is glad to welcome people who come to her asking for help and want to recover from malaria.
3- Ms Diagne is a kind and considerate person to be always there for researchers and learners who ask for assistance and encouragement.
4- Ms Diagne is so selfish that she is reluctant to help most African researchers who need help and advice.

VII- Find in the text words having approximately the same meaning as:

1- enthusiastically and passionately **(§2)**
2- grant given by a government or organization for an event or activity **(§5)**

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VIII- What do the underlined items in the text refer to?:

1- whose **(& 1)**
2- this month **(&5)**

PART TWO: LANGUAGE: (10pts)

TASK ONE: Choose the right alternative:

In 2016 a group led by a 20-year-old student in New Jersey **(1) (surfed/ hacked/ lagged)** into hundreds of thousands of "internet-of-things" (IOT) devices. It was not hard work: the devices, **(2) (most / more/ mostly)** CCTV cameras, had default passwords like "password" or "12345". **(3) (What's more/ However/ Despite),** even if a **(4) (reluctant/ powerful/ diligent)** operator of those devices had noticed this, the way the machines **(5) (configured/ were configured/ are configured)** meant that the default password couldn't **(6) (be changed/ changed/ be changing).** The hackers then diverted the flow of information from the devices to a company called Dyn, **(7) (who/ whose/ which)** played a key role in moving data around the internet. This "denial-of-service" attack clogged Dyn up and, **(8) (on/ for/ per)** a day, users across America and Europe struggled **(9) (connect/ to connect/ connecting)** to the likes of Amazon, Twitter and Reddit. It was one of the **(10) (big/ bigger/ biggest)** disruptions in internet history.

TASK TWO: Express differently starting as given on the answer sheet :

1- Although the shooting has stopped for now, the destruction left behind is colossal.
2- That's an interesting job offer; you ought to give it some serious consideration.
3- The introduction of new technology has doubled the companies' profits.
4- They are not wealthy enough to cover their own costs.
5- I won't pay him if he doesn't provide goods immediately.

PART THREE WRITING (12pts)

Task One: There are FOUR mistakes in the sentence below find and correct them on the answer sheet (2pts)

In the mid-1970, NASA has sent two Viking landers to the surface of Mars equiped with instruments that conducted the only detection life experiments ever conducted in another planet.

TASK Two: Rearrange the chunks below to get a coherent paragraph:

a) with the regulation of outer space activities

b) almost immediately after space exploration began with the

c) The international community became concerned

d) Soviet Union's successful launch of the Sputnik I satellite in 1957.

B/ Essay: (8pts)

Many African people believe that their countries should open up a gateway to space exploration despite being unable to address their social and economic challenges.

What do you think? Develop your opinion in a 15-line essay.

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A SUCCESS STORY

1- Rokhaya Diagne, a 25-year-old computer science major and an Artificial Intelligence (A.I) entrepreneur in Senegal, is part of a subset of Africa's enormous youth population **whose** lives have been shaped by screens and the internet and who have adopted a sense that the continent's biggest problems can be solved.

2- From Tech Enthusiast to Healthcare Innovator, Diagne's love for computer games on which she used to spend hours spurred her into establishing her new start-up Afyasense and crafting an award-winning networking application. Thus, she soon found herself longing to use her skills for a greater cause. Witnessing the gruesome effects of malaria in Africa, Diagne saw potential in A.I for bettering malaria detection and treatment protocols. Now, she is fervently working on achieving her goals including the use of artificial intelligence to help the world annihilate malaria by 2030.

3- Ms Diagne wants to use A.I to improve health outcomes in the region, a choice she made after a range of childhood illnesses landed her in Dakar hospitals. "I wanted more challenges than fearing the bacteria in my body," she said. "What I wanted was innovation and being able to create and use my brain for something instead of predictive results that I just followed".

4- One of Senegal's biggest health problems is the lack of quick and reliable malaria tests in rural areas. So she set out to design a better system of identifying positive cases. The AI-based system Ms Diagne has developed offers faster and more accurate results, and can swiftly analyse large datasets. In the outset of her career, she needed to find a lab that would give her a large set of malaria-infected cells that she could train A.I to read. But some labs in Senegal are accustomed to sharing data only with researchers from abroad. "They will openly give information to those people, but when it comes to little Africans like me who are still learning, they don't want to help us," Ms Diagne said. Ultimately, her school helped her find a lab operator who gave her a cell data set that she fed into a deep learning tool, training it to spot positive cases.

5- Ms Diagne's drive has earned her recognition. Her malaria project recently won an award at an A.I conference in Ghana and a national award in Senegal for social entrepreneurship, as well as $8,000 in funding. The Ghana A.I. conference was her first trip abroad, and later **this month** she will travel to Switzerland for an innovators training program to get more help launching her malaria project.

6- As her malaria project gets closer to going to market, Ms. Diagne already knows what she wants to undertake next: using A.I to detect cancer cells. She's moving in that direction. **She's ready to lend a hand to those coming up behind her**. "A lot of people are reaching out to me, saying, 'how did you do this? How did you do that?" she said. "I can mentor them and show them the way."

Adapted from The NEW YORK TIMES, Nov. 3, 2023

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DEVOIR DE FIN DE SEMESTRE N°1
ANSWER SHEET
PART ONE: COMPREHENSION QUESTIONS: (18pts)

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I- Table completion (3.5pts):

Rokhaya Diagne

Occupation	……
Areas of interest	a-…… b-……
Accomplishments	a-…… b-……
Goals	a-…… b-……

II- Answers :(3.5 pts.)

1- *Personal factors:

a- ……

b- ……

*Social factors:

a- ……

b- ……

2- (……)

a- ……

……

b-……

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III- True or False Statements: (3pts.)

1- (.....).....
.....

2- (.....)
.....
.....

3- (.....) .....
.....

IV- Paragraph Completion: (2pts.)

Ms Diagne believes in A.I's potential for ....., which has driven her to create an A.I-based system that consists in .....Her innovative system has contributed to ameliorating the health conditions in Senegal since it not only.....but it can also.....

V- Details showing that Ms Diagne is ambitious and determined: (3pts.)

1- .....

2- .....

3- .....

VI- The best sentence explanation: (1pt.)

.....

VII- Vocabulary Items: (1pt)

1-.....

2-.....

VIII- References: (1pt)

1-.....

2-.....

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PART TWO: LANGUAGE (10pts)

TASK ONE: The right option (5 pts.)

1		6	
2		7	
3		8	
4		9	
5		10	

TASK TWO: Express differently starting as given (5pts)

1- Despite……
……..
2- If I were you,……
3- The companies' profits……
……
4- They are so……
5- Unless ……

PART TWO: WRITING TASKS: (12pts)

TASK ONE: Mistake Correction: (2pts)

Mistake		Correction	
1		1	
2		2	
3		3	
4		4	

Task Two: Reordering: (2 pts.)

1 ….	2 ….	3 …	4 …

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TASK TWO: Essay :(8pts.)

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