

I- COMPREHENSION QUESTIONS (8 marks)

Listen to the text and :

1) Fill in the following table about Dr Yetunde Kolade (3 marks) :

HOME COUNTRY	JOB	PLACE OF HER JOB
.....

2) The following statement is false? Justify (1 mark) :

Dr Yetunde Kolade works in a well equipped lab.
.....

3) Complete the following table with one effect (1 mark) :

CAUSE	EFFECT
The electricity may stop unexpectedly.

4) Circle the suitable statement corresponding to the function (1 mark) :

FUNCTION	STATEMENTS
Expressing determination	a- She can't afford to buy enzymes. b- The electricity may stop unexpectedly. c- I will go back to use my skills.

SPELLING :

Listen to the text and complete the following sentence (1 mark) :

Dr Yetunde Kolade advises former and students over the internet. And she says when the time is right, she will bring her back to Africa.

PRONUNCIATION :

Listen to the text and say if the underlined sounds are Similar or Different (1 mark) :

[use / supply] ()[already / research] ()

II- LANGUAGE (12 marks)

Name :

4th Form ARTS :.....

1) Put the words between parentheses in the right Tense and / or Form (4 marks) :

Mobile robots have the capability to move around in their environment and are not fixed to one physical location. An example of a mobile robot that is in common use today is the automatic **1-(guide)** vehicle which is a mobile robot that follows markers or wires in the floor, or **2-(use)** vision or lasers. Mobile robots **3-(find)** in industry, military and security environments. They also appear as consumer products, for entertainment or to perform certain tasks like vacuum cleaning. Mobile robots **4-(be)** the focus of a great deal of current research and almost every major university **5-(have)** one or more labs that focus on mobile robot research. Mobile robots are usually used in tightly controlled environments such as on assembly lines because they have difficulty responding to **6-(not / expected)** interference. Because of this most humans rarely encounter robots. However, years ago, domestic robots for cleaning and maintenance **7-(not / use)** to be increasingly common in and around homes in developed countries. Robots can also **8-(find)** in military applications.

2) Fill in the blanks with 8 words from the box to get a coherent paragraph (4 marks) :

from - permanently - scientists - after - rewarding - depends - benefits - however - migration - gain

Brain drain can occur when scientists, engineers, or other intellectual elites migrate to a more developed country to learn in its universities. They perform research, or **1-.....** working experience. These professionals then decide to go back to their home country **2-.....** several years of experience to start a related business. The occurrence of reverse brain drain mostly **3-.....** on the state of the country's development and planning over a long period of time to reverse the **4-.....** . Countries that are attractive to returning intelligentsia will naturally develop migration policies to attract foreign **5-.....** and professionals. This would also require these countries to develop an environment which will provide **6-.....** opportunities for those who have attained the knowledge and skills from overseas. In the past, many of the immigrants from developing countries chose to work and live **7-.....** in developed countries ; **8-.....**, the recent economic growth that has been occurring back in their home countries has caused many of the immigrants to return home.

3) Circle the correct alternative to get a coherent paragraph (4 marks) :

It is a pity that beyond the high-profile activities to advance gender equality, progress in bringing women **1-(into / over / through)** leadership and decision-making positions around the world remains far too **2-(strong / slow / loud)**. And when women do make it, there often remains an undercurrent sneering of hostility and a hint of sexism that somehow public leadership is still **3-(worst / latest / best)** left to men. Men are dominant and are expected to control the home. They are also regarded **4-(similar / as / same)** the formal authority to which the wife and children must ultimately respond. These roles are extended to the **5-(employ / work / hire)** environment. Nevertheless, many countries have made significant progress to advance women **6-(against / with / towards)** the achievement of legislated gender equality. So **7-(which / where / why)** is it that despite the progress made, women are considered less legitimate as leaders? Is it that we assume leadership is for men, and only exceptional women can be compared **8-(with / by / for)** ordinary men in such roles?

Dr Yetunde Kolade is one frustrated scientist.

At her lab in Nigeria, she just wants to get on with her research into drugs to combat local diseases like malaria. But things are not easy. "It is a real sacrifice. It is patriotism," she says of her work. She can't afford to buy enzymes. Her lab is missing a critical machine. Most frustratingly, the power supply is unreliable. The electricity may stop unexpectedly for several hours at a time – which can ruin experiments, damage sensitive equipment and destroy refrigerated samples.

So far she has resisted the temptation to leave Nigeria and move abroad.

"It's not as if we don't have offers," she says. "Universities in the US want us to come."

Many of the brightest and best African scientists have already been lured to the West by the promise of better pay and - more importantly - the chance to carry out more effective research.

From her home in Britain, Dr Yetunde Kolade advises former colleagues and students over the internet. And she says when the time is right, she will bring her expertise back to Africa.

"If the country is ready, I will go back to use my skills," she says.

<http://news.bbc.co.uk/2/hi/science>
(Adapted)