

- Read the following text carefully , then answer the questions , and write the answers in your answer booklet.

Text A : The founding father of farming

Ibn Bassal was a writer, a scientist and an engineer who lived in Al-Andalus in the eleventh century CE. He worked in the court of Al-Ma'mun, who was the King of Toledo . His great passions were botany, which is the study of plants, and agriculture. Although he was a great scholar, he was also a practical man and all of his writing came from his own 'hands-on' experience of working the land.

One of the many things which Ibn Bassal achieved was *A Book of Agriculture*. The book consisted of sixteen chapters which explain how best to grow trees, fruit and vegetables, as well as herbs and sweet-smelling flowers; perhaps the most famous chapter of all was the one that described how to treat different types of soil . Ibn Bassal also worked out how to irrigate the land by finding underground water and digging wells. He designed water pumps and irrigation systems. All of these things were passed on through his writing. The influence of Ibn Bassal's book was enormous. As farmers down the generations followed his instructions and advice, the land became wonderfully fertile and produced more than enough food for the fast-growing population. The irrigation systems that he and his followers put in place are still in evidence in Spain. Although his name is not widely known, Ibn Bassal's legacy to the world has been great.

Question number One

- 1- **Ibn Bassal's achievements are still found in Spain .Write down two of these achievements ?**
 - The book of agriculture
 - The irrigation system
- 2- **Quote the sentence which shows that Ibn Bassal is not widely famous .**
 - Although his name is not widely known , Ibn Bassal's legacy to the world has been great.
- 3- There are many evidences to show that Ibn Bassal was a polymath .Write down two of these evidences .
 - Ibn Bassal was a writer, a scientist and an engineer
- 4- **Find a word in the text which means supply land with water.**
 - Irrigate
- 5- The underlined pronoun " who "refers to
- 6- **From India to Spain ,the brilliant civilization of Islam flourished. Think of this statement and write your point of view.**
 - **That's right because Islam is a religion of forgiveness and love , so people from all over the world entered it**
- 7- Suggest three things which make people reach to high levels of achievements .
 - a. The encouragement of their families
 - b. The motivation to be successful people
 - c. Working hard .

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Text B :

Scientists have successfully invented a prosthetic hand with a sense of touch. It is an exciting new invention, which they plan to develop. It is possible that, in the not-too-distant future, similar artificial arms and legs will have taken the place of today's prosthetic limbs.

Dennis Sorensen, a 39-year-old from Denmark, was the first person to try out the new invention. After losing his left hand in an accident, he had been using a standard prosthetic hand for nine years. The new hand, which was developed by Swiss and Italian scientists, was a huge improvement. With it, Sorensen could not only pick up and manipulate objects, but he could also feel them. 'When I held an object, I could feel if it was soft or hard, round or square,' he explained. He said that the sensations were almost the same as the ones he felt with his other hand.

Unfortunately, Sorensen was only taking part in trials, and the equipment is not ready for general use yet. He was only allowed to wear it for a month, for safety reasons. So now he has his old artificial hand back. However, he hopes that soon he will be wearing the new type of hand again. He is looking forward to the time when similar artificial limbs are available for the thousands of people who need them. He will have helped to transform their lives.

1- There are different kinds of prosthetic limbs ,Mention two of them

- Artificial arms
- Artificial legs.

2- Sorensen was able to do many things with his new prosthetic hand . Write down two of these things

- Pick up things
- Manipulate them

3- Quote the sentence which shows the reason that made him return the hand back .

- Unfortunately , Sorensen was only taking part in trials , and the equipment is not ready for general use yet.

4- The underlined pronoun it refers to

- a prosthetic hand with a sense of touch

5- Find two synonyms which means the opposite of natural ?

- Prosthetic ,artificial

6- Suggest three things which artificial limbs can improve in someone's life.

- a. It will enable him to do things he wasn't able to do.
- b. He will adapt in the society
- c. He will feel as a normal human beings

7- Helping people with disabilities is a good thing . Think of this statement and write your point of view.

I think , if we were able to help them overcome their disabilities , they will be good members of any society .

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Text C : KHCC

The King Hussein Cancer Center (KHCC) is Jordan's only comprehensive cancer treatment centre. It treats both adult and paediatric patients. As the population of the country increases, more and more families will rely on the hospital for cancer treatment. Patients come not only from Jordan but also from other countries in the region, as they are attracted by its excellent reputation, lower costs, and cultural and language similarities.

In order to cope with the increase in demand for treatment, the KHCC has begun an expansion programme. Building started in 2011 CE. The hospital will have more than doubled its capacity by 2016 CE, increasing space for new cancer cases from 3,500 per year to 9,000.

By then, they will have added 182 extra beds, along with bigger units for different departments, including radiotherapy. New adult and paediatric wards will have opened. Additionally, they will have built a special ten-floor outpatients' building, with an education centre which will include teaching rooms and a library.

Many cancer patients live far away from Amman, where the KHCC is located, and the journey to and from the hospital is often difficult. For this reason, there are plans to extend cancer care facilities to other parts of Jordan. In the near future, King Abdullah University Hospital in Irbid hopes to set up radiotherapy machines, so that cancer patients from northern Jordan will not have to go to Amman for radiotherapy treatment.

- 1- **People from all over the Middle East come to Jordan to be treated for many reasons , Write down two of these reasons**
 - They are attracted by its excellent reputation
 - Lower costs
 - Cultural and language similarities
- 2- **Quote the sentence which shows the only disadvantage of the KHCC .**
 - Many cancer patients live far away from Amman, where the KHCC is located, and the journey to and from the hospital is often difficult.
- 3- **There are many improvements that took place in the KHCC to make it a better place for cancer patients , write down two of these improvements**
 - they will have added 182 extra beds, along with bigger units for different departments, including radiotherapy.
 - New adult and paediatric wards will have opened.
- 4- **Find a phrasal verb which means depend on ?**
 - Rely on
- 5- The underlined pronoun " its " refers to

 - King Hussein cancer center's

- 6- It is said that Wherever the art of medicine is loved ,there is also a love of humanity .
 - **Yes ,that's right because medicine is a message of love and care before it is a job because doctors dedicate their time to help others which reflects on the benefit of humanity**
- 7- Cancer centers need a lot of funding because most of their services are offered freely . Suggest three ways to support these kinds of centers.
 - a. Encouraging rich people to fund these centers
 - b. Make exhibitions to show the importance of such centers
 - c. Make donation campaigns to support such centers

We will be able to have an operation to increase our intelligence.

Scientists have already developed brain implants that improve vision or allow disabled people to use their thoughts in order to control prosthetic limbs like arms, legs or hands, or operate a wheelchair. In 2012 CE, research on monkeys showed that a brain **implant** improved their decision-making abilities. How will humans benefit from this research? Scientists hope to develop a similar device to help people who have been affected by brain damage, which could be caused by **dementia** , a stroke or other brain injuries.

Doctors will be able to communicate with people in a coma.

In 2010 CE, neuroscientists confirmed that it was possible to communicate with some patients in a coma, by using a special brain **scanner** called an MRI. They suggested that, in the future, more meaningful dialogue with patients in a coma would be possible. Two years later, it has finally happened. The scanner, used on a man who has been in a coma for more than twelve years, proves that he has a conscious, thinking mind – a fact that had previously been disputed by many. Doctors plan to use similar brain-scanning techniques in the future to find out whether patients are in pain, or what they would like to be done in order to improve their quality of life.

A new drug will help to treat certain types of cancer almost instantly.

A new cancer drug is being trialled in Plymouth, UK, which doctors hope will extend the lives of cancer patients and reduce their symptoms overnight. It is taken as a single **pill** every morning, and so far patients have shown none of the usual **(5)side effects** such as the sickness and hair loss that are experienced when undergoing other forms of cancer treatment. The new treatment works by blocking a protein which causes cancerous cells to grow. It will improve patients' life expectancy and quality of life much more quickly than any other treatment. The patients were interviewed a year after starting the treatment and are fit and well, saying that they are definitely going to continue the trial. They have every reason to believe the new drug is going to work. Doctors at Plymouth Hospital hope that it will help patients from all over the world.

- 1- **There are many side effects of other treatments of cancer , write down two of these side effects**
 - a.sickness
 - b.hair loss
- 2- **There are many reasons for brain damages ,mention two of these damages ?**
 - a. Dementia
 - b. Stroke
- 3- **Quote the sentence which shows the kind of machine that enabled them to make meaningful dialogue with people with an unconsciousness state**
 - In 2010 CE, neuroscientists confirmed that it was possible to communicate with some patients in a coma, by using a special brain scanner called an MRI.
- 4- **The underlined pronoun “ they “ refers to**
 - Neuroscientists
- 5- **Find a word which means “ signs of illness” ?**

Symptoms
- 6- **Eating healthy food can keep your body in a good health , suggest three ways to live in a healthier life.**
 - a. Sleeping enough
 - b. Being away from polluted areas
 - c. Doing exercise
- 7- **It is believed that living longer has many impacts on societies .Think of this statement and write your point of view**

I think that's right because these people need more food and more care which will affect negatively on services provided to other people.