



Read the following text carefully, and then in your ANSWER BOOKLET answer all the questions that follow. Your answer should be based on the article

Megaprojects are extremely large investment projects, **which** are designed to encourage economic growth and bring new benefits to cities. Although megaprojects vary in terms of size and cost, they are all, by definition, expensive, public projects that attract a high level of interest and media coverage. Projects range from motorways, airports, stations, tunnels, bridges, etc. to entire city complexes.

The concept of a megaproject is always based on the benefits it brings to a community. However, many megaprojects have been criticised because of their negative effects on a community or the environment. This essay will look at these issues with regard to Masdar City, a megaproject in Abu Dhabi.

Masdar City, which began its development in 2006 CE, will be the world's first carbon-neutral, zero-waste artificially-created city. Covering an area of six square kilometres, when it is completed in 2025 CE, it is expected to house more than 40,000 residents, 50,000 commuters, and 1,500 businesses involved in mainly environmentally-friendly products.

The city will run entirely on renewable energy sources. It is built on an advanced energy grid which monitors exactly how much electricity. Furthermore, in order to reduce its carbon footprint, Masdar City will be a car-free zone, designed to be pedestrian and cycle-friendly. Electric, driverless cars will operate as public transport vehicles, and the city will be connected to other locations by a network of roads and railways.

Energy will be provided by solar power and wind farms, and there are also plans to build the world's largest hydrogen plant. A desalination plant will be used to provide the city's water, with 80% of water used being recycled

**Question Number One ( 54 points )**

1. The article states that *Masdar City* is expected to house three groups of people when it is completed in 2025. Write down these three groups of people. (12 points)
2. By definition, all megaprojects attract a high level of interest and media coverage due to two qualities. Write these two qualities down. (8 points)
3. Quote the sentence which states the examples of megaprojects. (5 points)
4. Find a word in the text which means ( **someone who is walking, especially along a street** ). (5 points)
5. What does the underlined pronoun ( **which** ) refer to? (6 points)
6. There are plans to build two types of plants in *Masdar City*. Write down these two types of plants. (6 points)
7. It is thought that Masdar city is a beneficial project. Think of this statement and, in two sentences, write down your point of view. (6 points)
8. Pollution has some serious effects on the environment. Suggest three possible pieces of advice to reduce the harmful effects of pollution on the environment. (6 points)

**Question Number Two (40 points)**

**Choose the suitable item from those given in the box to complete each of the following sentences. There are more words than you need . ( 20 points)**

**biological waste , mathematician, revolutionised, arithmetic, sustainability, legacy**

1. The person who ----- the musical theory is Ali ibn Nafi.
2. Experts believe that ----- should be made a priority of existing cities.
3. Although his name is not widely known, Ibn Bassal's ----- to the world has been great.
4. Hospitals need to dispose of a lot of -----, and it should be carefully managed because it can be dangerous.
5. Ramzi is very good with numbers and calculations. He always scores high in -----

**B. Choose the suitable item from those given to complete each of the following sentences and write it down in your ANSWER BOOKLET. ( 20 points )**

1. The Middle East is famous for the ----- of olive oil.  
( produce, production , productive , produced )
2. Ibn Sina wrote ----- textbooks.  
( medicine , medically , medical , medicate )
3. My father bought our house with an ----- from his grandfather.  
( inherit , inheritance , inherited , inheriting )
4. Scholars have discovered an ----- document from the twelfth century.  
( origin , originate , original , originally )

**Question Number Three (40 points)**

**A. Choose the correct form of the verb from those given below to complete each of the following sentences and write it down in your ANSWER BOOKLET. ( 20 points)**

1. According to the weather forecast, it ----- tomorrow .  
( was going to rain , will rain , rains , is going to rain )
2. Don't phone me at seven. I ----- dinner with my family.  
( will have , was having , will be having , have )
3. Before my father left home, I ----- a novel for three hours.  
( had been reading, will be reading, have been reading , am reading )
4. The books that you ordered ----- by the end of the week .  
( will not arrived, is not arrived, will not have arrived , wouldn't arrive )
5. Many guests ----- by Marwan last night.  
( were invited ,is invited, invited , are invited )

**B. Complete each of the following items so that the new item has a similar meaning to the one before it, and write it down in your ANSWER BOOKLET.(20 points)**

1. Ali Ibn Nafi contributed to the invention of the oud.  
The person who -----.
2. Jabir Ibn Hayyan did his research in a laboratory in Iraq.  
The country -----.
3. The Great Mosque in Cordoba was built in 784CE by Abd al-Rahman I.  
Abd al-Rahman I was the person -----.

4. Ali Ibn Nafi established the first music school in the word .

It was-----.

**Question Number Four ( 30 points)**

**A. Choose the suitable item from those given to complete each of the following sentences**

1. My grandfather retired a month ago. He isn't ----- nothing to do all day.  
( use to have , used to having , use to having , used to have )
2. I just got glasses this week , and I ----- them yet ,so I'm still having difficulty.  
( am not used to wearing , used to wear , is not used to wearing , didn't used to wear)
3. It was queen Rania ----- opened the children's Museum of Jordan in 2007CE.  
( who , which , when , whose )
4. The year ----- Petra was made a World heritage Site was 1985.  
( where , why , when , which )
5. The book ----- has influenced me most is the holy Quran .  
( which , who , when , whose )

**Question Number Four ( 30 points)**

**A. EDITING ( 10 points )**

**A. Imagine you are an editor in the Jordan Times. You are asked to edit the following lines that has five mistakes. Find out these five mistakes and correct them.( 12 points)**

Al-Kindi was a physician, philosopher, mathematitian, chemist, musician and astronomer – a true polimath. He makes ground-breaking discoveries in many of these fields ,but it is probably his work in arithmetic and jeometry that has made him most famous

**B. GUIDED WRITING ( 6 points)**

**Read the information in the table below , and then in your ANSWER BOOKLET, write two sentences about advantages of advantages of Masdar City**

advantages of Masdar City
<ul style="list-style-type: none"><li>• encourage economic growth.</li><li>• bring new benefits to community .</li><li>• reduce pollution.</li><li>• recycle biological and industrial wastes .</li></ul>

**C.FREE EWRTING ( 14 points )**

**In your ANSDWER BOOKLET , write a composition of about 120 words on the following topic .**

1. There are a lot of skills that a person should have in order to be successful in the world today .Write an essay describing some of these skills and how they can make a person successful.

### **Question Number One**

1. residents – commuters - businesses
2. expensive projects - public projects
3. projects range from motorways, airports, stations, tunnels, bridges, etc. to entire city complexes.
4. pedestrian
5. megaprojects
6. a hydrogen plant – a desalination plant
7. I agree with this statement because Masdar City will encourage economic growth as well as reduce polluting .
8. – using renewable sources of energy – recycling biological and industrial wastes – using public transports .

### **Question Number Two**

**A**

- 1- revolutionised 2- sustainability 3- legacy 4- biological waste 5- arithmetic

**B**

- 1- Production 2- medical 3- inheritance 4- original

### **Question Number Three**

**A**

- 1- is going to rain 2- will be having 3- had been reading 4- will not have arrived 5- were invited

**B**

- 1- contributed to the invention of the oud was Ali bin Nafi .
- 2- where Jabir Ibn Hayyan did his research in a laboratory was Iraq.
- 3- Who built the Great Mosque in Cordoba in 784CE .
- 4- Ali Ibn Nafi who established the first music school in the world

### **Question Number Four**

- 1- used to having 2- am not used to wearing 3- who 4- when - which

### **Question Number Five**

A - mathematician / polymath / made / , / geometry

B – open answer

C- open answer



Read the following text carefully, and then in your ANSWER BOOKLET answer all the questions that follow. Your answer should be based on the article

Jabir ibn Hayyan

The Arab world has many famous chemists in its history, but the person who is known as the founder of chemistry is probably Jabir ibn Hayyan. He is most well known for the beginning of the production of sulphuric acid. He also built a set of scales which changed the way in which chemists weighed items in a laboratory: his scales could weigh items over 6,000 times smaller than a kilogram.

Ali ibn Nafi

Ali ibn Nafi' is also known as 'Ziryab' (or 'Blackbird', because of his beautiful voice). He was a gifted pupil of a famous musician from Baghdad, and it was his talent for music that led him to Cordoba in the ninth century CE. He was the guest of the Umayyad ruler there. He is the person who established the first music school in the world in Cordoba, Al-Andalus, teaching musical harmony and composition. He revolutionised musical theory, and is also the person who introduced the oud to Europe.

Fatima al-Fihri

Fatima al-Fihri was the daughter of a wealthy businessman. She used her father's inheritance to build a learning centre in Fez, Morocco. This learning centre became Morocco's top university, and it is where many students from all over the world come to study. Moreover, it was Fatima's sister, Mariam, who supervised the building of the Andalus Mosque, which was not far from the learning centre.

Al-Kindi was a physician, philosopher, mathematician, chemist, musician and astronomer – a true polymath. He made ground-breaking discoveries in many of these fields, but it is probably his work in arithmetic and geometry that has made him most famous.

### Question Number One ( 54 points )

1. Al-Kindi was a polymath. Write down three examples of his areas of knowledge .  
(12 points)
2. Jabir Ibn Hayyan is known as the founder of chemistry. Write down two of his achievements in the field of chemistry. ( 8 points)
3. Quote the sentence which shows the importance of the learning center that Fatima al-Fihri built. ( 5 points )
4. Find a word in the text which means (money or things that you get from someone after they die). ( 5 points)
5. What does the underlined pronoun ( **there** ) refer to? ( 6 points)
6. Ali ibn Nafi established a school that taught two musical subjects. Write down these two musical subjects down. ( 6 points)
7. Success is being very good at something you care. Suggest three possible ways that may help you succeed at something you care. (6 points)
8. It is thought that reaching high levels of achievement is easier nowadays than it was in the past. Think of this statement and , in two sentences, write down your point of view.

SEE PAGE TWO/....

**Question Number Two (40 points)**

**A. Choose the suitable item from those given in the box to complete each of the following sentences. There are more words than you need . ( 20 points)**

**geometry , urban planning , power, neutral irrigate, legacy**

1. In hot countries, solar ----- is an important source of energy.
2. Ibn Bassal worked out how to ----- the land.
3. The need for more effective ----- is evident when we consider modern day problems like traffic.
4. We learn about shapes, lines and angles when we study -----.
5. If we replace as much carbon as we burn, we are carbon - -----.

**B. Choose the suitable item from those given to complete each of the following sentences and write it down in your ANSWER BOOKLET. ( 20 points )**

5. A lot of problems were solved because we had a very -----meeting.  
(production , produce, produced , productive)
6. She is being treated ----- for the disease .  
(medically , medicine , medical , medicate )
7. The judge has declared that all Safwans' daughters will ----- equally.  
( inheritance , inherited , inherit , inheriting )
8. I have been reading a book about the ----- of the universe.  
( originate , original , originally, origin )

**Question Number Three (40 points)**

**A. Choose the correct form of the verb from those given below to complete each of the following sentences and write it down in your ANSWER BOOKLET. ( 20 points)**

1. Suzan ----- about the idea for a while when she made the suggestion.  
( have been thinking, is thinking, thought , had been thinking)
2. The first paper ----- nearly two thousands years ago in china.  
( makes, is made , was made , has been made )
3. The workers ----- at the moment. They are on a break.  
( were not working , haven't been working , aren't being worked , aren't working)
4. Next month ,our family -----in this house for a year .  
( will be living , will live , will have lived , lives )
5. Look ! the plane -----to take off.  
(go , is going ,was going , were going )

**B. Complete each of the following items so that the new item has a similar meaning to the one before it, and write it down in your ANSWER BOOKLET.(20 points)**

1. Jabir Ibn Hayyan invented ink that can be read in the dark .  
It was -----
2. He has written many books, but his final book made him famous all over the world.  
He has written many books, but it was -----.
3. London is a huge city .It's the capital of the Uk.  
London , -----.
4. I stopped working at 11 p.m.  
It was -----

**Question Number Four ( 30 points)**

**A. Choose the suitable item from those given to complete each of the following sentences**

1. Please slow down .I ----- walking so fast!  
( isn't used to , used to , didn't use to , am not used to )
2. There ----- be so much pollution, but these days it is a global problem.  
( didn't use to , aren't used to , use to , isn't used to ,wasn't used to )
3. We needed warm clothes when we went to London .We ----- the cold weather.  
( am not used to , used to, weren't used to, didn't use to )
4. It was the heat ----- made the journey unpleasant.  
( where, which , when ,why )
5. The textbooks ----- the students study have lots of helpful examples .  
(which , who , where , when )

**Question Number Five ( 30 points)**

**A. EDITING ( 10 points )**

**A. Imagine you are an editor in the Jordan Times. You are asked to edit the following lines that has five mistakes. Find out these five mistakes and correct them.( 12 points)**

His great passions were potany, which is the study of plants, and agreculture. Although he was a great scholar, he was also a practikal man and all of his writing come from his own 'hands-on 'experience of working the land.

**B. GUIDED WRITING ( 6 points)**

**Read the information in the table below , and then in your ANSWER BOOKLET, write two sentences about advantages of advantages of Masdar City**

Why did people live in the area around Toledo?
<ul style="list-style-type: none"><li>• the land was wonderfully fertile.</li><li>• the land produced more than enough food.</li><li>• it was a very prosperous area .</li><li>• the existence of enough water.</li></ul>

**C.FREE EWRITING ( 14 points )**

**In your ANSDWER BOOKLET , write a composition of about 120 words on the following topic .**

2. Write an essay for your school magazine , describing a famous character mentioning his /her studies , most important achievements and how he/ she influences you.

### Question Number One

1. - Philosophy - Mathematics - Chemistry
2. He began the production of sulphuric acid – He invented scales that could weigh very light things.
3. This learning centre became Morocco's top university, and it is where many students from all over the world come to study.
4. Inheritance
5. Cordoba
6. – musical harmony - musical composition
7. - stay focused - be creative - get organized
8. I agree with this statement because there is more access to information nowadays as well as carrying out a lot of research on many different fields.

### Question Number Two

A

2- revolutionised 2- sustainability 3- legacy 4- biological waste 5- arithmetic

B

2- Production 2- medical 3- inheritance 4- original

### Question Number Three

A

2- is going to rain 2- will be having 3- had been reading 4- will not have arrived 5- were invited

B

- 5- contributed to the invention of the oud was Ali bin Nafi .
- 6- where Jabir Ibn Hayyan did his research in a laboratory was Iraq.
- 7- Who built the Great Mosque in Cordoba in 784CE .
- 8- Ali Ibn Nafi who established the first music school in the world

### Question Number Four

2- used to having 2- am not used to wearing 3- who 4- when - which

### Question Number Five

A - mathematician / polymath / made / , / geometry

B – open answer

C- open answer





Read the following text carefully, and then in your ANSWER BOOKLET answer all the questions that follow. Your answer should be based on the article

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 describes 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 ( 54 points )**

1. Ibn Bassal in his *Book of Agriculture* explains how best to grow certain plants. Write down three of these plants. (12 points)
2. Ibn Bassal achieved various things . Write down two of his achievements.
3. Quote the sentence which states the two benefits of following Ibn Bassal's instructions. ( 5 points )
4. Find a word in the text which means (supply land with water). ( 5 points)
5. What does the underlined pronoun ( **which** ) refer to? ( 6 points)
6. The text states two techniques to irrigate the land. Write down these two techniques. ( 6 points)
7. The area around Toledo had a fast growing population. Suggest three possible reasons that made people live in the area around Toledo. (6 points)
8. It is said that Ibn Bassal legacy to the world has been great although his name is not widely known. Think of this statement and, in two sentences, write down your point of view. (6 points)

**Question Number Two (40 points)**

**Choose the suitable item from those given in the box to complete each of the following sentences. There are more words than you need . ( 20 points)**

**polymath , footprint, power, ground-breaking , pedestrian, desalination**

1. We burn carbon whenever we use oil, coal or gas. This is known as our carbon -----
2. A place where no cars are allowed is a car - free zone, and it is ----- friendly.
3. Mr. Shahin is a true -----, working in all kinds of creative and scientific fields.
4. Many ----- plants will be established to provide the city with clean water.
5. Al-Kindi made ----- discoveries in many fields.

**B. Choose the suitable item from those given to complete each of the following sentences and write it down in your ANSWER BOOKLET. ( 20 points )**

1. Najeeb Mahfouth was the most ----- writer of the twentieth century.  
(influence , influential, influencer , influenced )
2. They set out to ----- a cure for cancer.  
(discover , discovery , discovered , discoverer )
3. He was very proud when his daughter received a recommendation for her -----  
( achieve , achieved , achievement , achievable )
4. The novel was -----published in hardcover.  
(original , originate , origin , originally )

**Question Number Two (40 points)**

**C. Choose the correct form of the verb from those given below to complete each of the following sentences and write it down in your ANSWER BOOKLET. ( 20 points)**

1. The students in my class ----- about their achievements in science when the bell suddenly rang.  
( have been talking , had been talked , are talking , were talking)
2. Every thing was wet .It ----- for hours .  
( have been raining, were raining, rained , had been raining )
3. While my father ----- the door white , our neighbor came to visit us .  
(is painted, paints, was painting, is being painted )
4. This time tomorrow , we will be celebrating because we ----- our exams .  
( will have finished, will be finished, finishes, will finish )
5. I think that the internet of things ----- all aspects of everyday life in the near future.  
( will run, was going to run, has run, had been run)

**D. Complete each of the following items so that the new item has a similar meaning to the one before it, and write it down in your ANSWER BOOKLET.(20 points)**

1. The Olympic Games were held in London in 2012 CE.  
It was -----
2. Queen Rania opened the Children's Museum of Jordan in 2007CE.  
It -----
3. Petra was made a World Heritage Site in 1985CE.  
The year -----
4. My father has influenced me most .

The person -----

5. I like Geography most of all.

The subject-----

### Question Number Four ( 30 points)

#### B. Choose the suitable item from those given to complete each of the following sentences

1. We always go to the market across the street , so we ----- eating fresh vegetables .  
( is used to , used to , didn't use to , are used to )
2. There ----- be a lot more wild animals in the past , but they are becoming rare nowadays.  
( use to , used to , was used to , were used to )
3. Marwan is a student in the university of Jordan ----- he studies English .  
( who , which , where , when )
4. My students, -----are all adults, are learning English to get better jobs .  
( who , which , where , why )
5. The climate is a system ----- affects weather conditions.  
( where , when , who , which )

### Question Number Four ( 30 points)

#### A. EDITING ( 10 points )

A. Imagine you are an editor in the Jordan Times. You are asked to edit the following lines that has five mistakes. Find out these five mistakes and correct them.( 12 points)

The city will run entirely on renewable energy sources. It is **build** on an advanced energy **gred** which monitors exactly how much electricity .Furthermore! in order to reduce its carbon **footbrint**, Masdar City will be a car-free zone, designed to be **pedistrian** and cycle-friendly.

#### B. GUIDED WRITING ( 6 points)

Read the information in the table below , and then in your ANSWER BOOKLET, write two sentences about advantages of advantages of Masdar City

Ways to make the land wonderfully fertile
<ul style="list-style-type: none"><li>• plough the land regularly.</li><li>• remove grass from the land.</li><li>• add fertilizer as needed.</li><li>• use modern irrigation systems.</li></ul>

#### C.FREE EWRITING ( 14 points )

In your ANSDWER BOOKLET , write a composition of about 120 words on the following topic .

1. It was more difficult for people in the past to reach high levels of achievements in comparison with the present day. To what extent do you agree with this view?  
Write an article expressing your opinion and support it with specific reasons.

### **Question Number One**

1. - trees - fruit - vegetables
2. – a book of agriculture - designing water pumps and irrigation system
3. 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 .
4. to irrigate
5. Sixteen chapters
6. finding underground water - digging wells
7. the land was wonderfully fertile - the land produced more than enough food.  
- it was a very prosperous area .
8. I agree with this statement as the influence of his book is enormous and farmers down the generations followed his instructions and advice.

### **Question Number Two**

**A**

1- footprint 2- pedestrian 3- polymath 4- desalination 5- ground-breaking

**B**

3- influential 2- discover 3- achievement 4- originally

### **Question Number Three**

**A**

1- were talking 2- had been raining 3- was painting 4- will have finished 5- will run

**B**

1. the Olympic Games that /which were held in London in 2012 CE.
2. was Queen Rania who opened the Children's Museum of Jordan in 2007CE.
3. when Petra was made a World Heritage Site was 1985CE.
4. who / that has influenced me most is my father.
5. which /that I like most of all is Geography.

### **Question Number Four**

1- are used to 2- used to 3- where 4- who 5- which

### **Question Number Five**

A - built / grid / , / footprint / pedestrian

B – open answer

C- open answer