

Read the following article(s) carefully, and then in your ANSWER BOOKLET answer all the questions that follow. Your answers should be based on the article. (34 points)

Text One (17 points)

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 sulfuric 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 ' 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 revolutionized musical theory, and is also the person who introduced the oud to Europe.

Question Number One:

- 1- Why is Jabir Ibn Hayyan's set of scales very important? (3 points)
- 2- Where did Ziryab receive his musical education? (3 points)
- 3- Ali Ibn Nafi is also known as blackbird or Ziryab, mention the reason. (3 points)
- 4- Ali ibn Nafi made some important achievements in music. Write down two of these achievements. (4 points)
- 5- Find a word in the text that means (to completely change the way people do something or think about something). (4 points)

Text Two (17 points)

Fatima al-Fihri was the daughter of a wealthy businessman. She used her father's inheritance to build a learning center in Fez, Morocco. This learning center 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 center.

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.

- 6- Quote the sentence which indicates that Al-Kindi has a lot of knowledge. (4 points)
- 7- Mention the work that made Al-Kindi most well-known. (4 points)
- 8- Who supervised the building of the Andalus Mosque? (3 points)
- 9- Quote the sentence which indicates that Fatima has much money. (3 points)
- 10- What does the underlined word (that) refer to? (3 points)

Question Number Two (46 points)

A : Vocabulary - Choose the suitable answer and write it down in your ANSWER BOOKLET (16 points)

1- _____ treat patients provide them with medicine and resort to surgeries.

- A. Physical B. **doctors** C. pills D. therapy

2- _____ is a well-known man because he has studied many books and important topics in life and anything.

- A. Polymath B. philosopher C. arithmetic D. inheritance

3- money or things that you get from someone after they die is the same meaning to _____.

- A. Arithmetic B. inheritance C. geometry D. musical harmony

4- _____ a person who studies math's to a very complex level.

- A. ground breaking B. mathematician C. composition D. Arithmetic

B: Grammar - Choose the suitable item from those given to complete each of the following sentences . Write the answers in your ANSWER BOOKLET. (30 points)

1- I told you about the man _____ lives next door.

- A. who B. which C. where D. whose

2- Do you see the tiger _____ is lying on the roof ?

- A. who B. which C. where D. whose

3- The walls and huge corner towers of the castle, _____ was built at the beginning of the fourth century are still standing.

- A. what B. whose C. where D. which

4- Apart from the rooms in the castle, there are also about twenty-three stables _____ horses may have been kept.

- A. what B. whose C. where D. which

5- She is the student _____ handwriting is the best in my class.

- A. what B. whose C. where D. which

6- The year _____ they closed the company was 1995.

- A. who B. where C. when D. which

7- The thing _____ Al-Jazari invented was the mechanical clock.

- A. who B. that C. when D. what

8- The first athletic event for disabled athletes took place in 1948CE.

The year _____.

9- The manager arranged a meeting with the workers.

The person _____.

10- My neighbor's **generosity** impresses me more than anything else.

It was _____.

Question Number Three (10 points)

A. EDITING (4 Points)

Imagine you are an editor in the Jordan Times. You are asked to edit the following lines that have four underlined mistakes. Correct these mistakes and write the answers down in your ANSWER BOOKLET.

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, mathematecian, chemist, musisian and astronomer – a true polymath.

B. GUIDED WRITING (6 Points)

Read the information in the table below, and then in your ANSWER BOOKLET, write two sentences using all the given notes about Study of the exam . Use the appropriate linking words .

Study of the exam
- Make a review
- Study notes
- Time regulation
- Take a break

The End

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Question Number One

Text One

- 1- Because it changed the way in which chemists weighed items in a laboratory.
- 2- In Baghdad
- 3- because of his beautiful voice
- 4- A- He is the person who established the first music school in the world in Cordoba
B - He revolutionized musical theory.
C-He is the person who introduced the oud to Europe
- 5- revolutionize

Text Two

- 6- Al-Kindi was a physician, philosopher, mathematician, chemist, musician and astronomer – a true polymath.
- 7- his work in arithmetic and geometry.
- 8- Fatima’s sister or Mariam.
- 9- Fatima al-Fihri was the daughter of a wealthy businessman.
- 10- arithmetic and geometry.

Question Number Two

(A)

- 1- B. doctors / 2- A. Polymath / 3- B. inheritance / 4- B. mathematician

(B)

- 1- A.who / 2- B. which / 3- D. which / 4- C. where / 5- B. whose / 6- C. when / 7- B. that
- 8- when the first athletic event for disabled athletes took place was in 1948CE.
- 9- who arranged a meeting with the workers was the manager.
- 10- generosity which / that my neighbor’s impresses me more than anything else.

Question Number Three

(A)

Moreover / (•) / mathematician / musician

(B)

Open Answer