

## ( Scientific Section )

انتبه إلى رقم السؤال بحيث يتطابق مع رقم الجواب و لا تنقل صيغة السؤال إلى ورقة الإجابة

**I- Read the following text then do the tasks below :**

Desertification, which is the process in which productive land changes into desert, is an increasing serious problem in over a hundred countries for the world. One billion people, suffer from **its** effects. Desertification usually occurs in dry areas where there is no rain and where the climate is harsh. In these places, the top layer of soil is destroyed so that the land can no longer be used for growing crops or grazing animals. This means that people who depend on the land for food have to move to greener areas in order to survive. A proportion of the population may survive by moving, but others may die because of shortages of food and water. Although natural changes in the climate often start the process, the activities of human beings are often the real cause of desertification. Because there are growing numbers of people to feed, farmers tend to overcultivate their land.

**Answer the following questions :** ( 18 marks )

- 1- Who has to leave the areas where desertification takes place ? **people who depend on the land for food have to move to greener areas in order to survive.**
- 2- Why do farmers overcultivate their land ? **Because there are growing numbers of people to feed.**
- 3- What does the word **its** in bold in the text refer to ? **It refers to " desertification" .**

**Find words in the text which mean the following :** ( 10 marks )

- 4- weather conditions in an area over a period of time . **climate**
- 5- what plants need to grow in . **soil**

**Rewrite these sentences about the text to correct the information :** ( 12 marks )

- 6- Temperate climatic conditions can destroy the top layer of soil . **Severe climatic conditions can destroy the top layer of soil.**
- 7- A small proportion of the world's population is affected by the problem of desertification . **A large proportion of the world's populations is affected by the problem of desertification.**

**II- Read the following text then do the tasks below :**

One of the most significant moments in IT history emerged at the close of the twentieth century when experts predicted that most computer systems would malfunction at midnight on 31 December 1999. Computer scientists speculated that IT programmes would stop working or produce incorrect **results** because they stored years with two digits instead of four – 98 instead of 1998, For example. They believed that the year 2000 would be represented by 00, and would be interpreted by software as the year 1900. This became known as the Millennium Bug, or the Year 2000 problem. They predicted that IT systems, ranging from **meteorological** devices and hospital equipment to data systems in governments, banks and airports, would fail. It was thought that embedded systems, that also made use of data logic, such as utilities and other crucial infrastructure, would collapse too. When midnight arrived, the Millennium Bug caused only minimal damage; some Australian bus ticket machines failed to work and a few British banking **transactions** were temporarily disrupted.

**Choose the correct answer a, b or c :** ( 12 marks )

- 8- The speculations of computer scientists about the Millennium Bug .....  
a- happened as was expected  
b- **were over-stated**      c – proved to be true
- 9- After midnight on 31<sup>st</sup> December 1999, .....  
a- all computer systems continued to work  
b- **British banking transactions were temporarily normally.**  
c- some computer systems had problems.

**Match the underlined words from the text to the definitions below :** ( 12 marks )

10. The acts of buying and selling things. **transactions**
11. Relating to the scientific study of weather conditions. **meteorological**

**Complete the following sentences with information from the text :** ( 12 marks )

- 12- Computer scientists speculated that software would interpret the year 2000 as the year 1900 because **they stored years with two digits instead of four.**
- 13- The Millennium Bug is also known as **the year 2000 problem**

III- Complete the following paragraph by filling in gaps : ( 18 marks )

- 14- Zoos exist all **over** the world because people  
15- want to see animals that they cannot see in their **own**  
16- country. They have always **been** popular,  
especially with children .

IV- Fill in the spaces with words from the list . Use each word once only : ( 24 marks )

attacks, success, germs, work, weak

- 17- Pasteur made the **germs** weak and fed the chickens  
18- with **weak** germs. They did not become ill; their own  
19- bodies went to **work** against the germs. Then they  
20- were safe from any more **attacks** from the same  
germs.

V- Complete the following dialogue by writing the suitable questions or answers. Write at least three words for each question : ( 32 marks )

- 21- **Laila** : What do you want to be ?  
Yara : I want to be a teacher.  
22- **Laila** : Why do you want to be a teacher ?  
Yara : I want to be a teacher because I like English .  
23- **Laila** : Who helped you ?  
Yara : My father helped me .  
**Laila** : How long have you been studying it ?  
24- **Yara** : I have been studying it for years.

VI- Rewrite the following sentences as required in brackets : ( 32 marks )

- 25- People drive too fast in the city centre .  
( I wish people wouldn't drive too fast in the city centre. )  
26- Elephants have changed the natural environment .  
( change into passive voice )  
The natural environment has been changed by elephants.  
27- He managed to get plenty of rest. He slept for eight hours every night.  
( Use -ing form )  
He managed to get plenty of rest, sleeping for eight hours every night.  
28- Going to the theatre is expensive .  
( I wish going to the theatre were expensive. )

VII- Complete the following sentences using clauses : ( 14 marks )

- 29- In the future, sea levels will rise because **the polar ice is melting**.  
30- If sand gazelles are being threatened, **they can run away**.

VIII- Choose the correct words in brackets : ( 18 marks )

- 31- We must do something about climate change to ( survive – **protect** ) our way of life .  
32- The ( **majority** – major ) of people never commit a crime .  
33- I'm sorry, I ( misused – **misheard** ) you. I thought you said you'd prefer tea.

IX- Correct the verbs in brackets : ( 18 marks )

- 34- I **spilt** ( spill ) tea on my homework, so I had to rewrite it.  
35- Damascus **is located** ( locate ) in the south-west of Syria .  
36- I **have been trying** ( try ) to phone you all morning .

X- Translation :

Translate the following sentence into Arabic : ( 10 marks )

- 37- A small miscalculation in the planning and preparation of the space mission will mean the death of everyone on board. إن خطأ حسابي صغير في التخطيط و التحضير لمهمة فضائية سوف يعني الموت لكل شخص على متن المركبة.

Translate the following sentence into English : ( 8 marks )

- 38- العلماء قلقون حول تغيير المناخ لأنه يهدد للحياة على كوكب الأرض.  
Scientists are worried about climate change because it is a threat to life on Earth.

XI- Composition : ( 50 marks )

Write a composition of no less than 80 words on the following topic :

“ Write an account of a visit you made.”