

I – Read the following text then do the tasks below:

Throughout history, there have always been people who designed and built tools or other devices to solve problems or improve lives. The concept of engineering has been around since ancient times, as primitive engineers created basic inventions such as pulley, lever, and the wheel. Each of these inventions is consistent with a modern definition of engineering, and makes use of basic mechanical principles to develop useful tools and objects. Simple classic machines were known in the ancient Near East, and then the wheel, along with the wheel and axle mechanism, was invented in Mesopotamia (modern Iraq) during the fifth millennium BC. The oldest architect, known by name Imhotep, designed and executed the construction of the Pyramid of Djoser (a step pyramid) in the Saqqara region in Egypt around 2630-2611 BC, and he is also credited with first using columns in architecture. In Persia, the oldest practical water-powered machines appeared in the fourth century BC, the water wheel and the watermill. During the sixth century AD, the Indian engineers invented the cotton gin, and by the ninth century AD they designed wind powered machines such as the windmill and the wind pump. Later, the Arab engineers designed the spinning wheel in the early eleventh century. This was essential to the growth of the cotton industry, which was the core of The Early Industrial Revolution in the 18th Century.

-Answer the following questions: (18 marks)

- 1- Why did people design and build tools or other devices?
- 2- Where did Imhotep, design and execute the construction of the Pyramid of Djoser?
- 3- When did the oldest practical water-powered machines appear?

-Find words in the text which mean the following: (12 marks)

- 4- A simple machine used to lift something heavy.
- 5- A period of one thousand years

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

- 6- The wheel and axle mechanism, was invented in Egypt.
.....
- 7- Later, the Indian engineers designed the spinning wheel in the late eleventh century.
.....
.....

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

As a result of the substantial scientific and technological development that affected many disciplines, many branches have appeared within the specialisation of engineering in particular, including medical technology engineering, which is also called biomedical engineering. This field is concerned with studying the body from an engineering point of view, in order to design suitable artificial limbs, organs, or other medical devices. Medical technology engineering helps doctors define their tasks and facilitates their work more, so the medical device has become an essential assistant for the doctors in all steps, starting from diagnosis, to the end of the treatment course. The need for development in this field has made designing medical devices a great priority, and this in turn led to the intervention of electrical, mechanical computer engineers and others, whose knowledge does not depend on their specialties only, but rather, they must be familiar with all aspects of human body, from biology, anatomy and physiology. So that the medical devices designed are useful for the human body. Medical devices can be divided into two parts, diagnostic medical devices, most notably the ultrasound device, and medical therapeutic devices used in chemical treatments. Another classification includes three categories. Firstly, we have simple devices such as bandages, body temperature meters and others. There are also more complex devices that require a certain amount of caution, such as those that emit X-rays.

-Choose the correct answer A, B, C or D : (24 marks)

8- The main idea of the text is.

A. Medical equipment	B. Health care
C. Engineering	D. Medical engineering

9- Relating to the treatment or cure of an illness.

a-discipline	b- ultrasound	c- therapeutic	d-conduct
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10- This field is concerned with studying the body from an/a..... point of view.

a-medical	b-magical	c-engineering	d-mechanical
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11- The medical device has become an/aassistant for the doctors in all steps.

a-important	b-unimportant	c-useless	d-minor
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-Complete the following sentences with information from the text: (12 marks)

- 12- Medical technology engineering helps doctors
- 13- We have simple devices such as.....

III- Choose the correct answer A, B, C or D : (54 marks)

14- This harsh environment is going to eatat this concrete over time.

a- away b- up c- into d- over

15-We thought we should walk..... the bakery.

a-to b-at c-in d-on

16-The sound /t/ may disappear in the word.....

a-first act b-last night c-battle d-fact

17-What time does the flight Damascus arrive?

a-with b-at c-in d-from

18-The sound /d/ may disappear in the word.....

a-divided b-ended c-second boy d-paid to

19- I have to jackthe car to change the tire.

a- away b-up c- into d- over

20-They are fencing the bottom part of the garden because of a deep hole.

a- down b- off c- away d- up

21-Make sure you check the joints before you leave today

a- away b- up c- into d- over

22-The carpenter has used a special hammer to drive the nails the finished doors.

a- away b- up c- into d- over

IV- Complete the following sentences/ paragraph by filling in each gab with one functional word: (18 marks)

23- We moved the chairs my bedroom.

24- My brother drove Homs in one hour.

25-The vase fell off the table shattered on the floor.

V- Write suitable questions about the underlined words: (24 marks)

26-A.....?

B-Raneem wants a doctor to alter her nose.

27-A.....?

B-The mechanic changed the oil in my car.

28-A.....?

B-A friend of mine is going to repair my DVD player next week.

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

29- My father mended the car himself. (causative)

30- Ali's driving license was taken away by the police.

(causative)

31- The hairdresser cuts Rana's hair about twice a year. (causative)

32-A carpenter is going to mend the front door of our house. (causative)

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

33- I can't phone for an ambulance – I(lose) my mobile.

34- She hurt her back while she(work) in the garden.

35-Tropical storms often(occur) in the Caribbean.

VIII- Complete the following sentences using clauses: (12 marks)

36-To get better in English, you.....

37-The lecture had started when.....

IX- Translation: (14 marks)

- Translate the following sentence into Arabic:

38- A successful person is able to differentiate between fantasy and reality.

- Translate the following sentence into English:

39- لماذا ينبغي علي ان اغير عاداتي لكي انسجم مع اسلوب حياتهم؟

X- Write a composition of no less than 80 words on the following topic: (50 marks)

Give some pieces of advice for people who are going to start a new job. Your composition should include:

- Rules to start a job
- Relationship with workmates
- How to improve one's skills