

**A -Read the following test, then choose the correct answer A, B, C or D:**

As a result of the substantial scientific and technological development that affected many disciplines, many branches have appeared within the specialization 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 engineers work in many fields like well-equipped hospitals and clinics in particular, medical companies and the advanced major research centers in universities. In the end, medical engineers work in cooperation with all disciplines, including nursing, medicine, biology, and other disciplines. Nowadays biomedical engineers are able to develop new procedures using knowledge from many technical sources; or conduct research needed to solve clinical problems.

**1. The main idea of the text is.**

- A. medical equipment      B. health care  
C. engineering      D. medical engineering

**2. Which statement is not true about the text?**

- A. Medical engineering has been around for decades.  
B. Medical engineers are employed by hospitals.  
C. Medical engineers work on small devices only.  
D. Medical engineers ensure safety.

**3. This field is concerned with studying the body from an/a..... point of view.**

- a-medical      b-magical      c-engineering      d-mechanical

**4. The medical devices designed are.....for the human body.**

- a-good      b-bad      c-useless      d-harmful

**5. The medical device has become an ..... assistant for the doctors in all steps.**

- a-important      b-unimportant      c-useless      d-minor

**6. Nowadays biomedical engineers are able to ..... research needed to solve clinical problems.**

- a-carry out      b- decrease      c- increase      d- include

**B -Read the following test, then choose the correct answer A, B ):(**

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. The Ancient Era. 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. The first steam engine was built in 1698 by the mechanical engineer Thomas Savery. The development of this device led to the emergence of the Industrial Revolution in the coming years, which allowed the beginning of the mass production of engines of various functions. The inventions of the Scottish engineer James Watt gave rise to the modern mechanical engineering, which opened the door wide for the development of specialised machinery and their maintenance tools during the Industrial Revolution and led to the rapid growth of mechanical engineering in its native Britain and abroad. Chemical engineering, like mechanical engineering, developed in the nineteenth century during the Industrial Revolution.

**7- People who designed and built tools to develop life and solve problems.**

- |        |         |
|--------|---------|
| a-True | b-False |
|--------|---------|

**8- The concept of engineering has been around modern times.**

- |        |         |
|--------|---------|
| a-True | b-False |
|--------|---------|

**9-Simple modern machines were known in the ancient Near East.**

- |        |         |
|--------|---------|
| a-True | b-False |
|--------|---------|

**10- The modern engineers created basic inventions such as pulley, lever.**

- |        |         |
|--------|---------|
| a-True | b-False |
|--------|---------|

**11- The oldest practical water-powered machines appeared In Mesopotamia.**

- |        |         |
|--------|---------|
| a-True | b-False |
|--------|---------|

**12- Chemical engineering, like mechanical engineering, developed in the 19 century during the Industrial Revolution.**

- |        |         |
|--------|---------|
| a-True | b-False |
|--------|---------|

