

## Module 2 - Lessons (3 + 4)

### A. Read the following text then choose the correct answer (a, b, s, or d): (60 Marks)

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.

Finally, there are those, which require a deep study before their use, such as the valves used in the artificial heart, in addition to the artificial joints.

**1. The need for development in Medical Engineering has made ..... medical devices a great priority.**

- a. designing                                      b. concluding                                      c. importing                                      d. adopting

**2. The incorrect information about the text is .....**

- a. Body temperature meter is an example of the simple medical devices.  
b. 3D printing has made the design process better.  
c. Medical engineers work in medical companies.  
d. The ultrasound devices are bad medical therapeutic devices

**3. Strong radio waves means**

- a. bandages                                      b. temperature meters                                      c. ultrasound                                      d. X-rays

**4. The artificial joints require .....**

- a. a deep study before their use      b. a certain amount of caution      c. much care                                      d. other devices

**5. the underlined word conduct means:**

- a. an arm or a leg                                      b. relating to the treatment or cure of an illness  
c. sum of money                                      d. to carry out or do something .

**6. The word “therapeutic” in the text means:**

- a. to carry out or do something                                      b. relating to the treatment or cure of an illness  
c. a field of study                                      d. an arm or a leg

**B. Read the following text then choose the correct answer (a, b, s, or d): (60 Marks)**

An X-ray is a common imaging test that has been used for decades. It is an image created on a photographic film or electronically on a digital system, using an external radiation to produce images of the body. X-ray Imaging can help doctors view the inside of the patient's body without having to make an incision. This can help surgeons diagnose, monitor and treat many medical conditions.

Magnetic Resonance Imaging (MRI) is a medical imaging technique used in radiography to form pictures of the anatomy and the physiological-processes of the body. MRI scanners use strong magnetic fields and radio waves to generate images of the organs in the body. MRI allows to access soft tissues and bone narrow involvement in case of the inflammation and infection.

Robotic Surgery is usually associated with minimally invasive procedures. During Robotic Surgery, surgeons can perform very complex steps with more precision, flexibility and control than it is possible with conventional techniques. Compared to traditional open surgery, Robotic Surgery results in smaller incisions, which reduce pain and lead to less time spent in hospitals and quicker recovery time.

Organ Transplant can greatly improve the health of patients. Doctors have been successfully transplanting various body parts like heart, liver and kidney and have performed various brain surgeries, too

7. All the following are true about X-ray except.....
- a. doctors make a cut in the body                      b. doctors can see inside the patient's body  
c. it is an image of the body organs                      d. X-ray Imaging can help doctors
8. During Robotic Surgery, surgeons can perform very..... steps with more precision.
- a. easy                      b. impossible                      c. complicated                      d. clear
9. The word **incision** means:
- a. a neat cut made into the skin                      b. an important development that may lead to an achievement  
c. the state of being accurate and careful                      d. to enter a country with armed forces
10. What is the **main idea** of this text?
- a. Medical Operations                      b. Technology and Medicine  
c. Ancient Medicine                      d. Robotic and conventional Surgeries
11. The word **Transplants** means:
- a. a neat cut made into the skin                      b. an important development that may lead to an achievement  
c. to enter a country with armed forces  
d. a medical operation to replace a damaged organ with another one
12. Traditional techniques need ..... Robotic Surgery
- a. smaller incision than                      b. larger incision than                      c. no incisions                      d. less time to recover than

**Choose the correct answer (a, b, c, or d) to complete the following: (130 Marks)**

13. A / An ..... specialises in determining food and environmental allergies.
- a. Cardiologist                      b. Allergist                      c. Naturopath                      d. Ophthalmologist
14. Camera footage shows that illegal goods ..... into the warehouse last week.
- a. were smuggled                      b. were smuggling                      c. smuggled                      d. are smuggled
15. These clothes ..... for daily use, so you can wear them wherever you want.
- a. designed                      b. are designed                      c. are designing                      d. have designed
16. Make sure you check the joints ..... before you leave today.
- a. onto                      b. into                      c. under                      d. over

17. I ..... the oil in my car changed last week.  
 a. have                      b. had                      c. am having                      d. have had
18. I have to ..... the car to change the tire.  
 a. shore up                      b. check of                      c. jack up                      d. dive on
19. Our ..... recommended that little Kathy should have her tonsils out.  
 a. ophthalmologist                      b. allergist                      c. pediatrician                      d. naturopath
20. Ali had his driving license ..... away.  
 a. took                      b. taking                      c. takes                      d. taken
21. We ..... by a decorator.  
 a. have had our house repaired                      b. have had repaired our house  
 c. repaired have had our house                      d. has had our house repaired
22. Even when you ..... and went into a coma, I never lost hope you'd fully recover one day.  
 a. at death's door                      b. under the knife                      c. took a turn for the worse                      d. on the mend
23. The actor ran ..... the stage.  
 a. onto                      b. into                      c. out                      d. for
24. She always teases everyone and now that her father is in jail, she is getting .....  
 a. on the mend                      b. under the knife                      c. at death's door                      d. a taste of her own medicine
25. A / An ..... is a heart specialist.  
 a. Pediatrician                      b. Allergist                      c. Naturopath                      d. Cardiologist
26. It ..... by scientists that people will live on Mars in 2050.  
 a. are expected                      b. was expected                      c. is expected                      d. is expecting
27. When ..... the taxes going to be paid?  
 a. is                      b. are                      c. have                      d. had
28. I ..... by the committee some difficult questions in the interview yesterday.  
 a. was asked                      b. asked                      c. was asking                      d. were asked
29. Will the fine ..... tomorrow?  
 a. is paid                      b. has paid                      c. being paid                      d. be paid
30. How much are these activities ..... on?  
 a. spend                      b. spent                      c. spended                      d. spending
31. What time does the flight ..... Cairo arrive?  
 a. to                      b. into                      c. for                      d. from
32. The hotel near our office was closed because it ..... by the owner.  
 a. is being renovated                      b. is renovated                      c. was being renovated                      d. renovated
33. Mona had her glasses .....  
 a. break                      b. broken                      c. breaks                      d. broke
34. The government in my country has extended the school day by one hour each day.  
 a. Don't you think you'd feel isolated?                      b. But what could be the reason behind that?  
 c. How long have you had yours?                      d. How have the students reacted?
35. This harsh environment is going to eat ..... at this concrete over time.  
 a. away                      b. under                      c. onto                      d. off
36. My uncle ..... suddenly last night, so we are heading to the hospital to see him.  
 a. on the mend                      b. took a turn for the worse  
 c. what the doctor ordered                      d. at death's door
37. Take your hands ..... your pockets and help me!  
 a. off                      b. out of                      c. onto                      d. to
38. I ought to have a new key ..... for the house.  
 a. making                      b. makes                      c. make                      d. made

39. We need to be at the meeting, .....
- a. so we must arrive at the building earlier      b. because we must arrive at the building earlier  
c. for we must arrive at the building earlier      d. so we mustn't arrive at the building earlier
40. I'm sorry this office is so dirty, .....
- a. but it can be cleaned until tomorrow morning.      b. but it can't be cleaned until tomorrow morning.  
c. because it can't be cleaned until tomorrow morning.      d. because it can be cleaned until tomorrow morning.
41. These clothes are designed for daily use, so you can wear them .....
- a. wherever you want      c. Wherever you want      c. whoever you want      d. whichever
42. I drove all night to reach the hospital .....
- a. because they told me my mother was at death's door.      b. and they told me my mother was at death's door.  
c. but they told me my mother was at death's door.      d. so they told me my mother was at death's door.
43. Choose the correct sentence
- a. I have a terrible rash in my arms and legs.      b. I have a terrible rash on my arms and legs.  
c. I have a terrible rash on mine arms and legs.      d. I has a terrible rash on my arms and legs.
44. Choose the correct sentence
- a. Bridges are build over the river by the government.      b. Bridges are built over the river by the government  
c. Bridges are building over the river by the government      d. Bridges was built over the river by the government.
45. Choose the correct sentence
- a. when does the boat leaves?      b. when does the boat left?  
c. when does the boat leave?      d. when do the boat leaves?
46. Choose the correct sentence
- a. Is it necessary to book on advance?      b. Is it necessary to book in advance?  
c. Is it necessary to book in advance.      d. Is it necessary to books in advance?
47. He failed to hit over nine thousands shots.
- a. What did he fail to do?      b. What do he fail to do?  
c. What did he fails to do?      d. What did he fail to did?
48. His dedication and consistency paved his way to success.
- a. What paved his way to success?      b. When paved his way to success?  
c. Who paved his way to success?      d. Which paved his way to success?
49. He couldn't move the car because the wheels sank into the sand.
- a. Why couldn't he moves the car?      b. Why couldn't he moved the car?  
c. When couldn't he move the car?      d. Why couldn't he move the car?
50. I have taken three tests since I started this class.
- a. How many tests have you taken since you started this class?  
b. How many tests have you took since you started this class?  
c. How much tests have you taken since you started this class?  
d. How old tests have you taken since you started this class?

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|-------------|-------|-------|-------|-------|-------|-------|
| النص الأول  | 1. a  | 2. d  | 3. c  | 4. a  | 5. d  | 6. b  |
| النص الثاني | 7. a  | 8. c  | 9. a  | 10. b | 11. d | 12. b |
| 13. b       | 14. a | 15. b | 16. d | 17. b | 18. c | 19. c |
| 20. d       | 21. a | 22. c | 23. a | 24. d | 25. d | 26. c |
| 27. b       | 28. a | 29. d | 30. b | 31. d | 32. c | 33. b |
| 34. d       | 35. a | 36. b | 37. b | 38. d | 39. a | 40. b |
| 41. a       | 42. a | 43. b | 44. b | 45. c | 46. b | 47. a |
| 48. a       | 49. d | 50. a |       |       |       |       |