



[T.me/Science_2022bot](https://t.me/Science_2022bot) : تم التحميل بواسطة 



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

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.

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.

In the end, medical engineers work in cooperation with all disciplines, including nursing, medicine, biology, and other disciplines.

Choose the correct answer a, b, c or d: (60 marks)**1. Medical equipment has become a crucial aid needed by doctors in**

- a) few stages b) early stages
c) all stages d) final stages

2. Medical engineers study

- a) engineering
b) the human body
c) engineering, the human body and other specialties
d) both a & b

3. There are..... classifications of medical devices.

- a) two b) three c) four d) five

4. The underlined word therapeutic in the text means:

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

Decide whether the following sentences are true or false:

5. Temperature meters and X-ray devices belong to the same category of medical devices. ()

6. In order to develop medical devices, there was a need for the participation of electrical, mechanical computer engineers and others. ()

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

Despite the enormous human cost, the First World War did have some results, precisely in the field of medicine as new medical equipment was urgently needed and quickly developed to deal with the huge number of injuries. The new weapons used in this war caused many deaths, and those injured suffered very severe wounds and this pushed the medical establishment to build on recent discoveries and come up with solutions for the new problems that faced doctors. X-rays' use became much more widespread during the war to help detect fragments of bombs and bullets buried in tissue. Stretchers for carrying the injured had also been developed to rescue **them** from the battlefield.

The profession of paramedic, who is able to apply first aid in the field, also comes from this time. Blood transfusion was impractical in these early days at the time of the war, and by 1917, indirect transfusion had been developed and blood stored on ice for up to 26 days. For many, this was the most significant medical **breakthrough** of the war. The war also saw advances in treating wounds which demanded the patient to be unconscious while undergoing medical procedures. In 1917, Henry Boyle invented an **anesthesia** machine and operations done without pain.

Choose the correct answer a, b, c or d: (60 marks)**7. Because of the modern weapons used in the First World War, many lives were**

- a) lost b) saved c) protected d) preserved

8. The job of a paramedic first appeared in the century.

- a) 18th b) 19th c) 20th d) 21st

9. Although the First World War had a negative impact on the whole world,

- a) it also killed millions of people
b) it led to the injury of millions of people
c) it pushed medical staff to come up with new tools to help the wounded
d) both a & b

10. The underlined word anesthesia in the text means:

- a) a state of temporary loss of sensation for medical purposes
b) a state of undergoing a medical procedure
c) a state of feeling pain in a surgical operation
d) diagnosis of a certain illness

11. The underlined word breakthrough in the text means:

- a) being fixed or inserted firmly into something else
b) important development that may lead to an achievement
c) the state of being accurate and careful
d) a neat cut made into the skin

12. The underlined pronoun them in the text means:

- a) doctors b) civilians c) soldiers d) the wounded

II- Use of English

Choose the correct answer a, b, c or d: (130 marks)

13. Education must be to the development of human personality.
a. directing b. directive c. direct d. directed
14. Everyone endeavours a great deal to make dreams a
a. real b. realize c. reality d. really
15. You can always me if you are feeling tired with your school work.
a. follow through b. get into c. reach out to d. run into
16. Thousands of young people the ranks of the unemployed each summer when they leave school.
a. back b. join c. beat d. go under
17. Don't worry. It's a minor procedure and you'll be within a week.
a. at death's door b. just what the doctor ordered c. on the mend d. on a roll
18. Dr. Rashed, Leila's came in and noted that her blood pressure and pulse were very high.
a. cardiologist b. ophthalmologist c. allergist d. naturopath
19. This harsh environment is going to at this concrete over time.
a. eat away b. jack up c. check over d. fence off
20. In the end, Henry needed eight people to push his car the beach and back onto the road.
a. off b. for c. between d. with
21. Our lawyer is very good and he does everything
a. on a roll b. around the bush c. an act of God d. by the book
22. After a brief speech, the minister the new statue.
a. unveiled b. disveiled c. overveiled d. misveiled
23. The word has the voiced sound (ð).
a. John b. path c. fish d. these
24. In the following sentence "*The present city was founded in 944.*" the first syllable in the word "PREsent is stressed. Therefore, "present" is:
a. a verb b. a noun c. an adjective d. an adverb
25. The bath in your hotel is full of spiders. You call the manager. What do you say?
a. I'm sorry about that. b. Congratulations!
c. Please forgive me. d. It really isn't good to see such insects here.
26. "I feel the real credit must go to my colleague, Ali." The speaker expressing is
a. uncertainty b. modesty c. sympathy d. apology
27. Today, I am having the oil in my car
a. changing b. change c. changed d. changes
28. This is the city Shakespeare was born in.
a. which b. who c. where d. whose
29. These clothes are for daily use
a. design b. designing c. designed d. designs
30. My neighbour for six months. There is no one in his house.
a. isn't seen b. hasn't seen c. hadn't been seen d. hasn't been seen
31. I've seen this film before. I to see it again now.
a. am not wanting b. doesn't want c. don't want d. wasn't wanting
32. We where we are going to live yet.
a. didn't decide b. don't decide c. haven't been deciding d. haven't decided
33. She as a waitress for three years when he met her.
a. has been working b. worked c. had been working d. is working
34. The bus until 7.30 in the evening.
a. isn't arriving b. won't arrive c. hasn't arrived d. don't arrive
35. She hurt her back while she in the garden.
a. is working b. was working c. has worked d. had worked
36. It happened at four in the afternoon when she news on TV.
a. was watching b. watches c. had watched d. can watch
37. Are the onions ready for the pan? Yes, Mike them.
a. peeled b. has peeled c. will peel d. had peeled
38. I Niagara Falls and Stanley Park during my last visit to Canada.
a. will visit b. am visiting c. visited d. had visited

III. Writing:

A- Ask about the underlined word in each sentence:

(12 marks)

39. A:.....?

B: Education has always been of great importance because of its great role in building society.

40. A:.....?

B: The right of education is considered to be one of the basic universal rights of the human being.

41. A:.....?

B: It enables individuals to get rid of poverty.

42. A:.....?

B: Laws guarantee equal access to higher education without discrimination.

B- Identify one mistake in each line then write it correctly on the answer sheet:

(8 marks)

43. A local jewellery shop was broken into by someone yesterday. The shop had just being locked up by the

A B C D

44. owner when he was threatened by a robber with the gun. He was told by the robber to unlock the shop

A B C D

45. and give it all the diamonds in the safe. Then he was tied up by the robber. A search had been organized

A B C D

46. by the police for the robber? It's hoped he would be found in a few days. The owner of the shop is being

A B C D

treated by doctors for shock.

C- Composition: (30 marks)

In no more than 80 words, write a description of a recent engineering project.

Use the following prompts to help you write your composition:

- *name the project*
- *place and time of performance*
- *advantages and disadvantages*
- *opinion*

Good Luck

Answer Key Sample A

I- Reading: (120 marks)

1. c 2. c 3. a 4. a 5. False 6. True 7. a 8. c 9. c 10. a 11. b 12. d

II- Use of English: (130 marks)

13. d 14. c 15. c 16. b 17. c 18. a 19. a 20. a 21. d 22. a
23. d 24. c 25. d 26. b 27. c 28. a 29. c 30. d 31. c 32. d
33. c 34. b 35. b 36. a 37. b 38. c

III- Writing / Question Making: (12 marks)

39. Why has education always been of great importance?
40. What is the right of education considered to be?
41. What does it enable individuals to do? / What does it enable individuals to get rid of?
42. What guarantees equal access to higher education without discrimination?
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III- Writing / Correct the mistakes (8 marks)

43. D) being → been 44. C) the → a 45. A) it → him / her 46. A) robber? → robber.

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

SHABAB Strategy Highlighting and Building Abilities for Business is one of the projects of the Syrian Trust for Development headed by *Asma al-Assad*. It is a nonprofit Syrian project that works on rehabilitating and developing the skills of young people between the ages of 15 and 24. It is the first project of its kind in Syria that aims to support the culture of organising and operating a business among Syrian youth to encourage them to enter the business world and provide young people with skills that enable them to become productive members of society. It also aims to create a positive impression on the Syrian society towards working in the business world and establishing small projects.

SHABAB Project aims to provide practical training and career advice to university students to improve future employment prospects. The training courses range from the rules of conducting job interviews and writing a CV or enhancing knowledge of the business environment and developing professional skills. Certified coaches and career advisors coach and guide students as they search for a job in the labour market or evaluate their career while the courses for outstanding students who aspire to be pioneers focus on teaching the basic principles of business and helping them develop their own businesses.

Choose the correct answer a, b, c or d: (60 marks)

- SHABAB project charges money from the youth for the courses it conducts.**
a) a lot of b) little c) very little d) no
- SHABAB provides**
a) varied types of training
b) very limited types of training
c) one typical type of training
d) no quality training
- The main objective of SHABAB is to:**
a) help the youth get better education
b) educate the youth about social life
c) help the youth get jobs and start small projects
d) help the youth make a lot of money
- The underlined word aspire in the text means:**
a) professional life
b) improving one's abilities
c) seek to attain a goal
d) chance

Decide whether the following sentences are true or false:

- SHABAB Project targets postgraduate students. ()
- SHABAB is a pioneer project and there have been no such projects of its kind in Syria before. ()

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

I am a medical intern in a hospital, London. Nowadays we have a lockdown because of COVID-19. We have also prohibited any international flights, as well as regional flights. We are ensuring that we are practicing social distancing. We have also had non-essential services, temporarily closed and the situation looks good and hopeful. Being a key worker in the UK during this time, when we are faced with the difficulty of a new virus, we, doctors, are really pressured with double shifts. And when other doctors go into isolation, we are more than happy to fill in the spots because our priority is the patients. Please do read credible sources, for example the World Health Organisation. They have regular updates, where you could be updated, and it's very important that you don't read any other sources that aren't credible because this could provide an area of misunderstanding and misinformation that's been spread. So to everyone, especially the youngsters at home, currently now, I know that we are all missing our family and friends. Just be encouraged to know that this will soon be over. Our life will go back to normal and we'll just look at the world in a totally different way.

Choose the correct answer a, b, c or d: (60 marks)

- Because of the spread of COVID-19**
a) people have to stay at home
b) people can move freely
c) people can go to work and come back home
d) only students can go to school
- Because of the measures taken by the government, the situation looks**
a) bad b) pessimistic c) optimistic d) horrible
- When doctors are faced with the difficulty of a new virus, they have to**
a) stay at home b) take vaccination
c) work from home d) work extra time
- According to the speaker, the situation will take a time to improve.**
a) long b) short c) a lot of d) much
- The underlined word isolation in the text means:**
a) being on your own and separated from others
b) working twice as long as usual
c) someone who does a job essential for society
d) a doctor who is training and working in a hospital
- The underlined pronoun "They" in the text means:**
a) updates b) doctors c) sources d) organisation

II- Use of English

Choose the correct answer a, b, c or d:

(130 marks)

13. Education the respect for human rights.
a. strengths b. strong c. strengthens d. strongly
14. She hated to say the words for fear of causing to him.
a. pain b. painful c. painless d. painlessly
15. Nowadays, students can the latest news by using the Internet.
a. follow through b. keep up with c. run into d. fit in with
16. Don't I think he will lose the match.
a. join the ranks b. back the wrong horse c. be dead in the water d. ace your tests
17. We were so happy to hear that your father is back home now and is
a. at death's door b. is dead in the water c. on the mend d. under the knife
18. My little girl hasn't put on weight for two months and she keeps getting an infection. She needs to see a
a. cardiologist b. ophthalmologist c. dermatologist d. pediatrician
19. The carpenter has used a special hammer to the nails the finished doors.
a. eat, away b. pull, down c. check, over d. drive, into
20. I slipped as I stepped the platform.
a. in b. into c. onto d. with
21. You should speak directly and ask for a raise. Don't
a. break the law b. beat around the bush c. assemble the case d. be on the mend
22. It took the removal men an hour to our things from the van.
a. upload b. offload c. ilload d. overload
23. The word has the voiceless sound (θ).
a. John b. path c. fish d. these
24. In the following sentence "*He rejected her advice.*" the second syllable in the word "reJECTed" is stressed. Therefore, "reject" is:
a. a verb b. a noun c. an adjective d. an adverb
25. The bookshop tells you the book you ordered three months ago still hasn't arrived. What do you say?
a. I haven't made up my mind yet. b. I'm afraid I will have cancel my order.
c. I promise it won't happen again. d. I'm not sure about that.
26. "I haven't made up my mind yet." The speaker is.....
a. expressing uncertainty b. giving advice
c. expressing sympathy d. accepting the advice
27. My father hasn't planted the trees himself. My father the trees
a. has, planted b. had, planted c. will have, plant d. has had, planted
28. All students, the teacher asked, gave the correct answers.
a. that b. whose c. whom d. which
29. The students plenty of time to finish the exam.
a. were giving b. are giving c. have given d. were given
30. People hope the robber will be in a few days.
a. find b. finding c. found d. finds
31. I a writing competition in 2006.
a. have won b. had won c. will win d. won
32. On Saturday afternoons, I tennis with my friends, or I go to the cinema.
a. am playing b. play c. played d. had played
33. Henry did very well in his exams, which was a shock because he an exam before.
a. hadn't been taking b. didn't take c. wasn't taking d. hadn't taken
34. The train.....at seven o'clock tomorrow morning.
a. will leave b. is leaving c. is going to leave d. leaves
35. Carol the guitar since she was six.
a. has been playing b. will play c. have played d. played
36. Why are you crying? Because my brother an accident.
a. has b. will have c. has had d. is having
37. He all the ingredients he needed from the supermarket and then went home to make her birthday cake.
a. buys b. has bought c. will buy d. bought
38. Did you and your husband at home on that day?
a. stay b. stayed c. stays d. staying

III. Writing:

A- Ask about the underlined word in each sentence:

(12 marks)

39. A:.....?

B: I woke up at about ten o'clock.

40. A:.....?

B: No, I didn't leave home after I woke up.

41. A:.....?

B: I was preparing lunch when my husband came home.

42. A:.....?

B: No one visited us in the afternoon.

B- Identify one mistake in each line then write it correctly on the answer sheet:

(8 marks)

43. My alarm goes off at 5.30 am and after I wake up I drive to work. I'm responsible at delivering a key

A

B

C

D

44. package of work whose involves project management, design engineering, and contractor management.

A

B

C

D

45. A worst part of my job is working away at home, but I am well- paid to put myself out there. The best

A

B

C

D

46. part of my job is that I've being able to work across lots of different departments in my company.

A

B

C

D

C- Composition: (30 marks)

Engineering has played a vital part in people's lives today. It has become a must for improving our life.

Write a composition of no more than 80 words about the role of engineering in the modern world.

Include the following points:

- *engineering – important role*
- *impact – our life*
- *health - devices*
- *technology – improve life*
- *transport – advanced vehicles*

Good Luck

Answer Key Sample B

I- Reading: (120 marks)

1. d 2. a 3. c 4. c 5. False 6. True 7. a 8. c 9. d 10. b 11. a 12. c

II- Use of English: (130 marks)

13. c 14. a 15. b 16. b 17. c 18. d 19. d 20. c 21. b 22. b
23. b 24. a 25. b 26. a 27. d 28. c 29. d 30. c 31. d 32. b
33. d 34. d 35. a 36. c 37. d 38. a

III- Writing / Question Making: (12 marks)

39. What time did you wake up? / When did you wake up?
40. Did you leave home after you woke up?
41. What were you doing when your husband came home?
42. Who visited you in the afternoon?
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III- Writing / Correct the mistakes (8 marks)

43. D) at → for 44. A) whose → which 45. A) A → the 46. B) being → been