

The Final Term Exam of English

Full Name:

Class:

Part one: Reading

(15pnts)

A/ Comprehension

(07pnts)

Read the text carefully then do the following activities

With the recent developments in robotics, it has become possible to perform surgery from a different geographical location to that of the patient through remote surgery, also known as robotic telesurgery; **It** is useful when a qualified surgeon cannot be present in the hospital at a particular time.

A remote surgeon can use tools to control a robot, **which** in turn performs the surgery on the patient. The surgeon is supported by a screen or VR glasses, as well as receiving audio feedback. Although remote surgery is already possible in some situations, **it** is limited by high communication latency and overhead. *Latency* can create issues such as unsynchronised information – the visual, auditory and feedback might be transferred at different speeds.

Similar to telesurgery, 5G networks could also improve telementored surgery. In this case, surgeons with particular expertise could advise those performing the operation via a video connection. A similar system could be implemented in 5G-connected ambulances. A physician would be able to instruct the ambulance team on how to best care for a patient via video. Such systems could greatly improve the overall quality of care provided to patients.

Adapted from: <https://www.researchgate.net/> <https://ijnet.org/en/story/>

1. Choose the answer to complete each statement.

(1,5 pt)

- a) Development in.....enables surgeons to performs surgery on the patient remotely.
- telecommunication - robotic - both robotic and telecommunication
- b) Any problem in connection speed and latency can createresult.
- a successful - undesirable . - expected
- c) Using 5G network, an expertise surgeons role is limited as.....
-Instructor - trainer - operator.

2. Identify the paragraphs in which the following ideas are mentioned:

(1pt)

- a) Remote surgery is a fruit of technological progress.
- It is mentioned in paragraph
- b) The effectiveness of the last generation of internet in robotic surgery.
- It is mentioned in paragraph

3. Answer the following questions from the text.

(3pts)

- a) What is robotic telesurgery?
.....
.....
- b) In which case does remote surgery become impossible?
.....
.....
.....
- c) Could 5G change surgeon's role? Illustrate.
.....
.....
.....

4. Find what or who do the underlined words in the text refer to.

(1,5pt)

- a) It (§1) → b) Which (§2) →
- c) It (§2) →

B/ Text exploration

(08points)

- 1. Find in the text words or phrases that are closest in meaning to the following: (1.5 pt)**
 a) Advance (§1) = b) Manipulate (§2) = c) Doctor = (§3).....

- 2. Complete sentence “b” so that it means the same as sentence “a”. Make the necessary changes. (03points)**

- 1) a- Remote surgery is so useful that many complicated operations were performed.
 b- Many operations were performed.....
 2) a- Surgeon can perform a surgery on a patient even though they are from different geographical location.
 b- Despite of
 3) a- In the future, remote surgery will not be limited to some nations.
 b- By the next two decades.....

- 3. Classify the following words according to their stressed syllable. (1.5 pt)**
 surgery– development –perform

Stress on the 1 st syllable	Stress on the 2 nd syllable	Stress on the 3 rd syllable
.....		
.....		

- 4. Fill in each gap with the appropriate word from the list given. (2pts)**

robotic surgery - infection - higher chance - parts

The risk ofexists with any surgical procedure, which can delay your recovery and keep you in the hospital longer. Some areas of the body have aof infection than others, particularly when largeof the body are exposed due to long incisions. Becauseis less invasive, however, the risk of developing an infection is reduced, so you avoid the potential complications that come with infection.

Part two: Written Expression

(05points)

Choose ONE of the following topics.

Topic one

As a student who is interested in new technologies and its impact on our lives, you read an article in one of your social media sites where the writer states that remote surgery is so beneficial since it could save many patients. Write a letter of opinion taking sides for or against this kind of surgery?

Advantages	Disadvantages/drawbacks
- Greater precision - Access to difficult areas - Great performance - Less pain.	- Too expensive. - Not available for all people. - Medical mistakes. - Need High connection.

Topic two

“A study has shown that the majority of European citizens support organ donation, with 55% expressing their willingness to donate their own organs after death”. In the light of the quotation above write a letter of opinion in which you taking sides for or against cloning and organ transplant.

The correction of the third term exam.

Level: 1st year scientific stream

Part one: Reading

(15pnts)

A/ Comprehension

(08pnts)

1. Choose the answer to complete each statement.

(1,5 pt)

- Development in both of **robotic and telecommunication** enable surgeons to performs surgery on the patient remotely
- Any problem in connection speed and latency can create **undesirable** result.
- Using 5G network, an expertise surgeon's role is limited as **Instructor**.

2. Identify the paragraphs in which the following ideas are mentioned:

(1pt)

- Remote surgery is a fruit of technological progress.**
 - It is mentioned in paragraph **one**
- The effectiveness of the last generation of internet in robotic surgery.**
 - It is mentioned in paragraph **three**

3. Answer the following questions from the text.

(4pts)

- Telesurgery is a new technique of surgery where surgeon can perform surgery from a different geographical location to that of the patient using robots and high means of telecommunication. **(1.25)**
- Remote surgery become impossible in case high communication latency and overhead are not provided. **(1.25)**
- Yes, it could, because via5G networks **(1.5)**
 - Surgeons could advise those performing the operation via a video connection. **OR**
 - A physician would be able to instruct the ambulance team on how to best care for a patient via video.

4. Find what or who do the underlined words in the text refer to.

(1,5pt)

- It (§1) → robotic telesurgery) which (§2) → robot
- It (§2) → remote surgery

B/ Text exploration

(07 points)

1. Find in the text words or phrases that are closest in meaning to the following:

(1.5 pt)

- Advance (§1) =development
- Manipulate (§2) = control
- Doctor = (§3) physician /surgeon

2. Complete sentence "b" so that it means the same as sentence "a". Make the necessary changes. (2.5pt)

- b-** Remote surgery is useful **(because/sine/as)** many complicated operations were performed.
- b-** Despite of the fact that they are from different geographical location, Surgeon can perform a surgery on a patient
- b-** By the next two decades will not have been limited to some nations.

3. Classify the following words according to their stressed syllable.

(1pt)

surgery– development –perform - remote

Stress on the 1 st syllable	Stress on the 2 nd syllable	Stress on the 3 rd syllable
Surgery remote	perform	Development

4. Fill in each gap with the appropriate word from the list given.

(2pts)

robotic surgery - infection - higher chance - parts

The risk of **infection** exists with any surgical procedure, which can delay your recovery and keep you in the hospital longer. Some areas of the body have a **higher chance** of infection than others, particularly when large **parts** of the body are exposed due to long incisions. Because **robotic surgery** is less invasive, however, the risk of developing an infection is reduced, so you avoid the potential complications that come with infection.

Part two: Written Expression

(05points)