Listening
Time: 23 minutes

Part 1 Questions 1-10

You will hear a talk about Nanotechnology.
For Questions 1-3 choose the correct letter (A, B or C) which fits best according to what you hear. You will hear the recording TWICE.
You have 45 seconds to read the questions 1-3 before the recording starts.

Questions 1-3
Choose the correct letter; A, B or C.
Nanotechnology: technology on a small scale
1 The speaker says that one problem with nanotechnology is that
A it could threaten our way of life
B it could be used to spy on people
C it is misunderstood by the public

2 According to the speaker, some scientists believe that nano-particles
A should be restricted to secure environments
B should be used with more caution
C should only be developed for essential products

3 In the speaker's opinion, research into nanotechnology
A has yet to win popular support
B could be seen as unethical
C ought to be continued

Questions 4-10
For Questions 4-10 write ONE WORD ONLY to fill in the gaps.
You will hear the recording TWICE.
You have 45 seconds to read the questions 4-10 before the recording starts.

Uses of Nanotechnology
Transport
• Nanotechnology could allow the development of stronger 4_____
• Planes would be much lighter in weight.
•5_____ travel will be made available to the masses.
Technology
• Computers will be even smaller, faster, and will have a
greater 6 _____
 7_____ energy will become more affordable.
The Environment
• Nano-robots could rebuild the ozone layer.
• Pollutants such as 8 _____ could be removed from water more easily.

• There will be no 9 _____ from manufacturing.
Health and Medicine
• New methods of food production could eradicate famine.
• Analysis of medical 10_____ will be sped up.
• Life expectancy could be increased.

Part 2 Questions 11-16
You will hear a part of a part of a lecture *What happens if you don't put your phone in airplane mode.*
For statements 11-16 choose T (True), F (False), NG (Not Given) according to what you hear.
You will hear the recording TWICE.
You have 45 seconds to read the statements 11-16 before the recording starts.

11. The signals emitted by phones are powerful enough to be detected from space.
12. Human eyes can perceive radio waves under specific conditions.
13. Airplane mode is necessary to ensure the safety of your flight.
14. Cell towers use unique wavelengths to manage multiple calls simultaneously.
15. During emergencies, cell towers can become overwhelmed with too many signals.
16. Airplane mode is required to avoid fines for passengers.

READING

ADVANCEMENT IN TECHNOLOGY

Artificial Intelligence (AI) has become a significant part of our daily lives. From virtual assistants like Siri and Alexa to advanced algorithms that recommend movies and music, AI is transforming how we interact with technology. In healthcare, AI helps doctors diagnose diseases more accurately by analyzing medical images and patient data. In the business world, companies use AI to improve customer service and streamline operations. As AI continues to evolve, it raises important questions about privacy, ethics, and the future of work. While some people worry about job losses due to automation, others believe that AI will create new opportunities and improve our quality of life.

5G technology is the fifth generation of mobile networks, and it promises to revolutionize how we connect to the internet. With faster speeds and lower latency, 5G allows for seamless streaming of high-definition videos and smoother online gaming experiences. Moreover, it enables the growth of the Internet of Things (IoT), where everyday devices, from refrigerators to cars, can communicate with each other. This connectivity can lead to smarter cities, improved transportation systems, and enhanced healthcare services. However, the rollout of 5G also raises concerns about security and health risks, making it essential for governments and companies to address these issues as they expand this technology.

Advancements in renewable energy technology are crucial for combating climate change. Solar panels and wind turbines have become more efficient and affordable, making it easier for individuals and businesses to switch to clean energy sources. Innovations in battery storage technology also allow us to store energy for use when the sun isn't shining or the wind isn't blowing. Countries around the world are investing in renewable energy to reduce their reliance on fossil fuels and lower greenhouse gas emissions. As technology continues to improve, renewable energy has the potential to power our homes and industries sustainably, contributing to a healthier planet for future generations.

Virtual Reality (VR) is changing the way we experience entertainment, education, and even therapy. With VR headsets, users can immerse themselves in different environments, whether it's exploring a virtual world in a video game or participating in a simulated classroom. In healthcare, VR is being used for pain management and rehabilitation, helping patients recover in a controlled and engaging setting. As the technology advances, VR is becoming more accessible and affordable, allowing more people to benefit from its applications. However, challenges such as motion sickness and the need for high-quality content remain. The future of VR looks promising, with potential uses expanding every day.

Multiple-choice assignments based on the provided text

1. Which of the following is NOT mentioned as an application of AI in the text?

A) Virtual assistants like Siri and Alexa.
B) Advanced algorithms for recommending products.
C) Analyzing medical images in healthcare.
D) Improving customer service in businesses.

2. According to the text, what is one concern people have regarding the rise of AI?
A) AI will enhance the quality of healthcare.
B) AI will lead to job losses due to automation.
C) AI will improve customer service.
D) AI will help in diagnosing diseases more accurately.

3. What important issues does the text suggest are raised by the evolution of AI?
A) The cost of technology and its accessibility.
B) Privacy, ethics, and the future of work.
C) The environmental impact of technology.
D) The speed of technological advancements.

4. What is the primary benefit of 5G technology mentioned in the text?
A) Increased battery life for devices.
B) Faster speeds and lower latency.
C) Higher costs for consumers.
D) Limited connectivity options.

5. How does 5G technology contribute to the Internet of Things (IoT)?
A) By reducing the number of connected devices.
B) By allowing everyday devices to communicate with each other.
C) By increasing the cost of internet services.
D) By eliminating the need for internet connectivity.

6. Which of the following is NOT mentioned as a potential outcome of 5G technology?
A) Smarter cities.
B) Improved transportation systems.

C) Enhanced virtual reality experiences.
D) Enhanced healthcare services.

7. What concerns are associated with the rollout of 5G technology?
A) Increased internet speeds.
B) Security and health risks.
C) Decreased connectivity.
D) Higher data storage requirements.

8. What is the primary focus of advancements in renewable energy technology according to the text?
A) Increasing fossil fuel production.
B) Combating climate change.
C) Reducing the cost of traditional energy sources.
D) Enhancing nuclear energy efficiency.

9. Which of the following technologies is mentioned as a means to store energy?
A) Solar panels.
B) Wind turbines.
C) Battery storage technology.
D) Geothermal systems.

10. According to the text, what are two benefits of solar panels and wind turbines becoming more efficient and affordable?
A) They increase fossil fuel consumption and reduce energy costs.
B) They make it easier for individuals and businesses to switch to clean energy sources and reduce reliance on fossil fuels.
C) They create more greenhouse gas emissions and limit energy storage options.
D) They are primarily used for industrial purposes and have no impact on climate change.

11. What is one of the challenges mentioned in the text regarding the use of Virtual Reality (VR)?

A) High cost of VR headsets.
B) Limited applications in healthcare.
C) Motion sickness.
D) Lack of interest from users.

Read the following statements. Determine whether each statement is True or False according to the information in the text. Write "T" for True, "F" for False in the space provided.

12. VR is only used for entertainment purposes. _____

13. Users can explore different environments using VR headsets. _____

14. VR technology is currently expensive and inaccessible to most people. _____

15. VR is being utilized in healthcare for pain management. _____

16. The text mentions that VR can be used in a simulated classroom. _____

17. Motion sickness is a challenge associated with VR technology. _____

18. VR has no applications in education. _____

19. The advancements in VR technology are making it more affordable. _____

20. Patients using VR for rehabilitation do so in an uncontrolled environment. _____

USE OF ENGLISH

Choose the correct answer:

1. have a head on one's …. (trustworthy)
a) teeth
b) shoulders
c) neck
d) way

2. have a …! (show mercy)
a) word
b) soul
c) heart
d) stomach

3. have a … (lose control)
a) bill
b) meter
c) fit
d) buck

4. have no ... for (cannot stand)
a) back
b) finger
c) stomach
d) fists

5. have one's ... on the ground (be sensible)
a) teeth
b)arms
c) nose
d) feet

6. have one's … on something (admire something)
a) lips
b) mouth
c) eye
d) heart

7. have an axe to … (have selfish reasons and act accordingly to them)
a) follow
b) throw
c) grind
d) take

8. have the ... of truth (seem to be true)
a) bit
b) rye
c) seed
d) ring

9. have a ... of a time (enjoy yourself)
a) walrus
b) dolphin
c) whale
d) herring

10. have the gallows in one's … (be executed by hanging)
a) hat
b) leg
c) face
d) lip

10. have the gallows in one's … (be executed by hanging)
a) hat
b) leg
c) face+
d) lip

11.   have bigger … to fry (have more important things to do)
a)steak
b)fish
c) chicken
d) frog

12.   go … (go crazy or be angry)
a)   bananas
b)   lemons
c)   oranges
d)   pineapples

13.   as cool as a(n)… (calm and in control of emotions)
a)   tooth
b)   ice
c)   tea
d)   cucumber

14. a hard … to crack (a difficult problem to deal with)

a) nail
b) egg
c) nut
d) box

15. have a sweet … (to like sweets)
a) smile
b) tooth
c) eye
d) finger

16. have … on one's face (to look embarrassed)
a) snail
b) egg
c) potato
d) mushroom

17. in a … (in a few words)
a) nutshell
b) second
c) bookshelf
d) cup

18. be on the … of my tongue (to be about to say something)
a) edge
b) tip
c) top
d) front

19. be a piece of … (easy to do)
a) cake
b) pie
c) cheese
d) bread

20. spill the … (reveal something secret)
a) coffee
b) cake
c) beans
d) peas

WRITING

The plans below show the site of an airport now and how it will look after redevelopment next year.

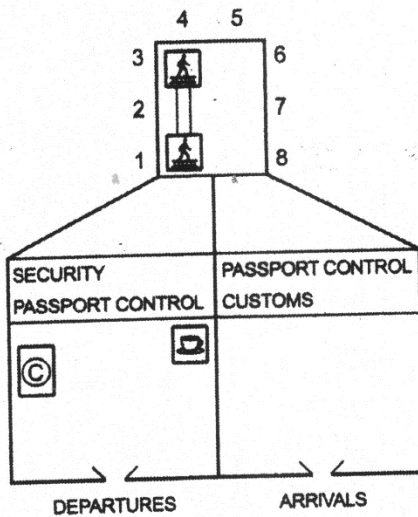Write a report of **150-180** words about the redevelopment of the airport.

Do not forget to - give a summary of the main changes
- make comparisons where relevant
- use the appropriate register

SOUTHWEST AIRPORT

NOW

AFTER DEVELOPMENT

SECURITY
PASSPORT CONTROL

PASSPORT CONTROL
CUSTOMS

DEPARTURES   ARRIVALS

SECURITY
PASSPORT CONTROL

PASSPORT CONTROL
CUSTOMS

SHOPS

DEPARTURES   ARRIVALS

©	Check-in
☕	Café
🚶	Walkway
①–⑧	Gates

©	Check-in
®	Bag drop
☕	Café
$	ATM
🚆	Sky train
🚗	Car hire
①–⑱	Gates