

Academic Reading Practice Test 75

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Instructions for Taking the Test

Read the rules and regulations carefully before the test:

1. Switch off your mobile phone and electronic devices.
2. Manage your time strictly to **20 minutes** per passage, reading questions first to guide your skimming and scanning for answers, always paying close attention to word limits and matching synonyms.
3. Read the instructions thoroughly before answering the questions.
4. Read the questions carefully to avoid silly mistakes.

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Crop Growing Skyscrapers

By the end of 2050, almost 80% of the Earth's population will migrate to urban centres. By making use of the conservative estimates in the present demographic trends, the human population density will increase exponentially up to three billion. Around 120 hectares of new land (about 20% larger than Australia) will be estimated to cultivate enough food to feed them if traditional farming practices continue as they are evolved today. Now, across the world, nearly 80% of the landscape suitable for raising crops is in use. When we go back to the past, some 15% of that has been laid waste due to poor management skills. How to ensure enough food security for the world's population to live on?

The technique of indoor farming is not new since many hothouse production of tomatoes, onions and other vegetables has been in fashion for a certain time. However, there is an urgent need to increase this technology to feed another three billion human population. Experts believe a whole new concept of indoor farming is required with super-efficient technologies. 'Vertical Farm' is one amongst them. The idea is to have multi-storey buildings where food crops are grown in eco-friendly conditions. If they deploy it in the heart of urban centres, they would substantially decrease the transportation cost paid to bring food to the end consumers. This vertical farm has to be effective, accessible to the consumers to operate. Let's assume it is successfully implemented, proponents claim, vertical farms will guarantee urban renewal, sustainable development production of a safe and varied food chain (round the year production of all crops), and the obvious reconstruction of ecosystems that got deteriorated due to horizontal farming.

The like-minded people of vertical farming discover various benefits of this system. For example, crops can be harvested throughout the year, as they would be preserved in man-made controlled, maximum growing conditions. Similarly, no climate-related crop failures occur due to droughts, floods or pests. All the crops and food could be produced organically, neglecting the inorganic products of herbicides, pesticides and fertilisers. The system would significantly decrease the occurrence of many non-communicable diseases necessary at the agricultural production interface. Even though the system would require energy, it would give it back in a different way to the grid via methane gas generation from composting non-edible parts of plants. This practice will help in reducing the need for tractors, ploughs and shipping, which in turn, reduce in consumption of fossil fuel.



Besides the advantages, a major setback of vertical farming is that the plants need artificial light unlike the traditional farming. However, when those plants are kept near the window, they will be exposed to more sunlight and grow more quickly, reducing the efficiency. Whereas the single-storey greenhouse has the benefit of natural light on the top. Nevertheless, many plants still need artificial lighting other than the natural sunlight.

A multi-storey facility without any natural light at the top might need far more. Producing sufficient light might be expensive, unless cheap, renewable energy is there to support, and this seems to be rather a long-term goal than a tangible result for the near future.

One difference on vertical farming that has been produced is to plant small trees in stacked trays that are alongside rails. Shifting the trays allows the small trees to get good sunlight for photosynthesis. This system is put in place, thus, performs well within a single-storey greenhouse with sufficient sunlight: it is not absolute, but, it is possible to make it work without the sunlight from the above.

Vertical farming is nothing but an attempt to combat the prolonged issues that we face in making food supply for an ever growing human population. Presently, though, more steps need to be taken to decrease the aftermaths happening on the environment, specifically the consumption of energy. While it is doable that our food supply will be produced in skyscrapers in future, experts think that it is way too far that we will merely make use of the space situated on urban area rooftops.

Crop Growing Skyscrapers IELTS Reading Questions

Questions 1 – 7

Complete the sentences below.

Choose **NO MORE THAN TWO WORDS** from the passage for every answer

Indoor Farming

1. There are certain vegetables, including tomatoes _____ that are produced indoors.
2. Vertical farms have a major setback, that is _____.
3. There is an urgent need for vertical farming to feed _____ human population.
4. Nearly 120 hectares of land (20% larger than _____) is required for food production in the upcoming years.
5. The system consumes energy and returns it back through _____ generation.
6. _____ deteriorated the ecosystem and more consumption of fossil fuels.
7. If _____ buildings are deployed in the heart of urban centres, the food transportation cost would be substantially decreased.



Questions 8 – 13

Do the following statements agree with the information given in the reading passage?

In boxes 8 – 13 on your answer sheet, write

- **TRUE** if the statement agrees with the information
-
- **FALSE** if the statement contradicts the information
-
- **NOT GIVEN** if there is no information on this
-

8. The concept of indoor farming is not new to humans.

9. By 2050, nearly 80% of the human population will live in urban centres.

10. Vertical farming cannot be preserved by humans due to the usage of tractors, ploughs, etc.

11. Vertical farming won't be affected by droughts, floods or pests.

12. By making use of the conservative estimates in the current demographic trends, the human population will increase up to two billion.

13. The major setback for vertical farming is it spreads non-communicable diseases

[Click Here to Check Answers](#)



Questions 11 - 13

Answer the questions below.

Choose **NO MORE THAN TWO WORDS AND/OR A NUMBER** from the passage for each answer.

11. For how many years has the intense pressure to build water infrastructure been destroyed?

12. Millions of people were forced to move from their homes permanently with what?

13. During which centuries did the water resources demand rise exponentially due to the industrial revolution?

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Answers for IELTS Academic Reading Practice Test 75

1. Onions	2. Artificial lighting	3. Three billion	4. Australia
5. Methane gas	6. Horizontal Farming	7. Multi-storey	8. True
9. True	10. False	11. True	12. False
13. False			

How many questions did you get right?

Correct Answers (Out of 13)	Your Next Step
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