

Quiz 1

A: Match the following words with their synonyms.

A	B	C
1) Happy	A. Amiable	1
2) Sad	B. Courageous	2
3) Angry	C. Frightening	3
4) Friendly	D. Furious	4
5) Funny	E. Hilarious	5
6) Scary	F. Imaginative	6
7) Brave	G. Inquisitive	7
8) Clever	H. Intelligent	8
9) Creative	I. Joyful	9
10) Curious	J. Unhappy	10

B: Match the following words with their synonyms.

A	B	C
1) Content	A. Affable	1
2) Miserable	B. Amusing	2
3) Irritated	C. Artistic	3
4) Kind	D. Blissful	4
5) Comical	E. Bold	5
6) Terrifying	F. Bright	6
7) Valiant	G. Horrifying	7
8) Smart	H. Hostile	8
9) Inventive	I. Sorrowful	9
10) Nosy	J. Wanting to Know	10

C: Match the following words with their synonyms.

A	B	C
1) Intricate	A. aspects of human life	1
2) Interplay	B. changes	2
3) Dynamics	C. complex	3
4) Fluctuations	D. create	4
5) Technological advancements	E. diverse	5
6) Profoundly shape	F. effects	6
7) Contemporary global landscape	G. forces	7
8) Engender	H. interaction	8
9) Multifaceted	I. modern world	9
10) Consequences	J. significantly influence	10
11) Diverse	K. technological progress	11
12) Domains of human existence	L. various	12

D: Choose the correct paraphrased statement.

The symbiotic relationship between ecological sustainability and socioeconomic development necessitates a nuanced examination of policies and practices that harmonize environmental preservation with economic progress in a rapidly changing world.

A) In a constantly changing world, the reciprocal connection between ecological sustainability and socioeconomic growth requires a comprehensive study of strategies and procedures that balance environmental protection with economic advancement.

B) The interdependent connection between ecological sustainability and socioeconomic progress requires a detailed analysis of strategies and measures that reconcile environmental conservation with economic advancement in a slowly evolving global context.”

C) “The antagonistic connection between ecological preservation and socioeconomic progress mandates a superficial review of policies and methods that align environmental sustainability with economic growth in an ever-changing world.”

D) “The inconsequential association between ecological sustainability and socioeconomic development demands a superficial inspection of policies and practices that combine environmental protection with economic prosperity in a rapidly changing world.”

LISTENING

PART 1 Questions 1–10

Complete the notes below.

Write **ONE WORD AND/OR A NUMBER** for each answer.

Transport survey

Name: Sadie Jones

Year of birth: 1991

Postcode: 1

Travelling by bus

Date of bus journey: 2

Reason for trip: shopping and visit to the 3

Travelled by bus because cost of 4 too high

Got on bus at 5 Street

Complaints about bus service: - bus today was 6

- frequency of buses in the 7

Travelling by car

Goes to the 8 by car

Travelling by bicycle

Dislikes travelling by bike in the city centre because of the 9

Doesn't own a bike because of a lack of 10

READING

READING PASSAGE 1

You should spend about 20 minutes on **Questions 1–13**, which are based on Reading Passage 1 below.

Urban farming

In Paris, urban farmers are trying a soil-free approach to agriculture that uses less space and fewer resources. Could it help cities face the threats to our food supplies?

On top of a striking new exhibition hall in southern Paris, the world's largest urban rooftop farm has started to bear fruit. Strawberries that are small, intensely flavoured and resplendently red sprout abundantly from large plastic tubes. Peer inside and you see the tubes are completely hollow, the roots of dozens of strawberry plants dangling down inside them. From identical vertical tubes nearby burst row upon row of lettuces; near those are aromatic herbs, such as basil, sage and peppermint. Opposite, in narrow, horizontal trays packed not with soil but with coconut fibre, grow cherry tomatoes, shiny aubergines and brightly coloured chards.

Pascal Hardy, an engineer and sustainable development consultant, began experimenting with vertical farming and aeroponic growing towers – as the soil-free plastic tubes are known – on his Paris apartment block roof five years ago. The urban rooftop space above the exhibition hall is somewhat bigger: 14,000 square metres and almost exactly the size of a couple of football pitches. Already, the team of young urban farmers who tend it have picked, in one day, 3,000 lettuces and 150 punnets of strawberries. When the remaining two thirds of the vast open area are in production, 20 staff will harvest up to 1,000 kg of perhaps 35 different varieties of fruit and vegetables, every day. 'We're not ever, obviously, going to feed the whole city this way,' cautions Hardy. 'In the urban environment you're working with very significant practical constraints, clearly, on what you can do and where. But if enough unused space can be developed like this, there's no reason why you shouldn't eventually target maybe between 5% and 10% of consumption.'

Perhaps most significantly, however, this is a real-life showcase for the work of Hardy's flourishing urban agriculture consultancy, Agripolis, which is currently fielding enquiries from around the world to design, build and equip a new breed of soil-free inner-city farm. 'The method's advantages are many,' he says. 'First, I don't much like the fact that most of the fruit and vegetables we eat have been treated with something like 17 different pesticides, or that the intensive farming techniques that produced them are such huge generators of greenhouse

gases. I don't much like the fact, either, that they've travelled an average of 2,000 refrigerated kilometres to my plate, that their quality is so poor, because the varieties are selected for their capacity to withstand such substantial journeys, or that 80% of the price I pay goes to wholesalers and transport companies, not the producers.'

Produce grown using this soil-free method, on the other hand – which relies solely on a small quantity of water, enriched with organic nutrients, pumped around a closed circuit of pipes, towers and trays – is 'produced up here, and sold locally, just down there. It barely travels at all,' Hardy says. 'You can select crop varieties for their flavour, not their resistance to the transport and storage chain, and you can pick them when they're really at their best, and not before.' No soil is exhausted, and the water that gently showers the plants' roots every 12 minutes is recycled, so the method uses 90% less water than a classic intensive farm for the same yield.

Urban farming is not, of course, a new phenomenon. Inner-city agriculture is booming from Shanghai to Detroit and Tokyo to Bangkok. Strawberries are being grown in disused shipping containers, mushrooms in underground car parks. Aeroponic farming, he says, is 'virtuous'. The equipment weighs little, can be installed on almost any flat surface and is cheap to buy: roughly €100 to €150 per square metre. It is cheap to run, too, consuming a tiny fraction of the electricity used by some techniques.

Produce grown this way typically sells at prices that, while generally higher than those of classic intensive agriculture, are lower than soil-based organic growers. There are limits to what farmers can grow this way, of course, and much of the produce is suited to the summer months. 'Root vegetables we cannot do, at least not yet,' he says. 'Radishes are OK, but carrots, potatoes, that kind of thing – the roots are simply too long. Fruit trees are obviously not an option. And beans tend to take up a lot of space for not much return.' Nevertheless, urban farming of the kind being practised in Paris is one part of a bigger and fast-changing picture that is bringing food production closer to our lives.

Questions 1–3

Complete the sentences below.

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

Write your answers in boxes 1–3 on your answer sheet.

Urban farming in Paris

- 1 Vertical tubes are used to grow strawberries, and herbs.
- 2 There will eventually be a daily harvest of as much as in weight of fruit and vegetables.
- 3 It may be possible that the farm's produce will account for as much as 10% of the city's overall.

Questions 4–7

Complete the table below.

Choose **ONE WORD ONLY** from the passage for each answer.

Write your answers in boxes 4–7 on your answer sheet.

Intensive farming versus aeroponic urban farming			
	Growth	Selection	Sale
Intensive farming	• wide range of 4 used • techniques pollute air	• quality not good • varieties of fruit and vegetables chosen that can survive long 5	• 6 receive very little of overall income
Aeroponic urban farming	• no soil used • nutrients added to water, which is recycled	• produce chosen because of its 7	

Questions 8–13

Do the following statements agree with the information given in Reading Passage 1?

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 Urban farming can take place above or below ground.
- 9 Some of the equipment used in aeroponic farming can be made by hand.
- 10 Urban farming relies more on electricity than some other types of farming.
- 11 Fruit and vegetables grown on an aeroponic urban farm are cheaper than traditionally grown organic produce.
- 12 Most produce can be grown on an aeroponic urban farm at any time of the year.
- 13 Beans take longer to grow on an urban farm than other vegetables.