



# IELTS Practice Tests Plus Volume 3

## Reading Practice Test 1

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2. Use your mobile device to scan the QR code attached



# READING PASSAGE 1

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



## Reducing electricity consumption on the Isle of Eigg

### Background

The Isle of Eigg is situated off the West Coast of Scotland, and is reached by ferry from the mainland. For the island community of about a hundred residents, it has always been expensive to import products, materials and skilled labour from the mainland, and this has encouraged a culture of self-sufficiency and careful use of resources. Today, although the island now has most modern conveniences, CO<sub>2</sub> emissions per household are 20 percent lower than the UK average, and electricity use is 50 percent lower.

When Eigg designed its electricity grid, which was switched on in February 2008, it quickly became apparent that in order to keep the capital building costs down, it would be necessary to manage demand. This would also allow the island to generate most of its electricity from renewable sources, mainly water, wind and solar power. This goal was overseen by the Eigg Heritage Trust (EHT).

### The technology

Eigg manages electricity demand mainly by capping the instantaneous power that can be used to five kilowatts (kW) for a household and ten kW for a business. If usage goes over the limit, the electricity supply is cut off and the maintenance team must be called to come and switch it back on again. All households and businesses have energy monitors, which display current and cumulative electricity usage, and sound an alarm when consumption reaches a user-defined level, usually set a few hundred watts below the actual limit. The result is that Eigg residents

have a keen sense of how much power different electrical appliances use, and are careful to minimise energy consumption.

Demand is also managed by warning the entire island when renewable energy generation is lower than demand, and diesel generators are operating to back it up - a so-called 'red light day', as opposed to 'green light days' when there is sufficient renewable energy. Residents then take steps to temporarily reduce electricity demand further still, or postpone demand until renewable energy generation has increased.

Energy use on the island has also been reduced through improved wall and loft insulation in homes, new boilers, solar water heating, carsharing and various small, energy-saving measures in households. New energy supplies are being developed, including sustainably harvested forests to supply wood for heating.

Eigg Heritage Trust has installed insulation in all of its own properties at no cost to the tenants, while private properties have paid for their own insulation to be installed. The same applies for installations of solar water heating, although not all Trust properties have received this as yet. The Trust also operates a Green Grants scheme, where residents can claim 50 percent of the cost of equipment to reduce carbon emissions, up to a limit of £300. Purchases included bikes, solar water heating, secondary glazing, thicker curtains, and greenhouses to grow food locally, rather than importing it.

### **Environmental benefits**

Prior to the installation of the new electricity grid and renewable energy generation, most households on Eigg used diesel generators to supply electricity, resulting in significant carbon emissions. Homes were also poorly insulated and had old, inefficient oil-burning boilers, or used coal for heating.

The work by the Eigg Heritage Trust to reduce energy use has resulted in significant reductions in carbon emissions from the island's households and businesses. The average annual electricity use per household is just 2,160 kilowatt hours (kWh), compared to a UK average in 2008 of 4,198 kWh. Domestic carbon emissions have fallen by 47 percent, from 8.4 to 4.45 tonnes per year. This compares to average UK household emissions of 5.5 to 6 tonnes per year. The emissions should fall even further over the next few years as the supply of wood for heating increases.

### **Social benefits**

The completion of Eigg's electricity grid has made a significant difference to the island's residents, freeing them from dependence on diesel generators and providing them with a stable and affordable power supply. A reliable electricity supply has brought improvements in other areas, for example, better treatment of drinking water in some houses, and the elimination of the constant noise of diesel generators. Improved home insulation and heating has also yielded benefits, making it more affordable to keep homes at a comfortable

temperature. One of the incentives for capping electricity use, rather than charging different amounts according to usage, was to make access to energy equitable. Every household has the same five kW cap, irrespective of income, so distributing the available resources equally across the island's population.

### **Economic and employment benefits**

Eigg's electricity grid supports four part-time maintenance jobs on the island, and residents have also been employed for building work to improve Trust-owned houses and other buildings. Likewise, the start of organised harvesting of wood for heating has created several forestry jobs for residents. A part-time 'green project manager' post has also been created. A wider economic impact has come from having a reliable and affordable electricity supply, which has enabled several new businesses to start up, including restaurants, shops, guest houses and self-catering accommodation. As Eigg has become known for cutting carbon emissions and protecting the environment, an increasing number of visitors have come to the island to learn about its work, bringing a further economic benefit to the residents.

### **Questions 1-7**

Answer the questions below.

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

Approximately how many people live on Eigg?

1 \_\_\_\_\_

What proportion of a UK household's electricity consumption does an Eigg household consume?

2 \_\_\_\_\_

Apart from wind and sun, where does most of Eigg's electricity come from?

3 \_\_\_\_\_

What device measures the amount of electricity Eigg's households are using?

4 \_\_\_\_\_

When renewable energy supplies are insufficient, what backs them up?

5 \_\_\_\_\_

What has EHT provided free of charge in all the houses it owns?

6 \_\_\_\_\_

Which gardening aid did some Eigg inhabitants claim grants for?

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## Questions 8-13

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

|                  |                                              |
|------------------|----------------------------------------------|
| <b>TRUE</b>      | if the statement agrees with the information |
| <b>FALSE</b>     | if the statement contradicts the information |
| <b>NOT GIVEN</b> | If there is no information on this           |

- 8  Electricity was available for the first time on Eigg when a new grid was switched on.
- 9  Eigg's carbon emissions are now much lower than before.
- 10  Wood will soon be the main source of heating on Eigg.
- 11  Eigg is quieter as a result of having a new electricity supply.
- 12  Well-off households pay higher prices for the use of extra electricity.
- 13  The new electricity grid has created additional employment opportunities on Eigg.

# READING PASSAGE 2

You should spend about 20 minutes on Questions 14-26, which are based on Reading Passage 2 below:



## Change in business organisations

**A** The forces that operate to bring about change in organisations can be thought of as winds which are many and varied - from small summer breezes that merely disturb a few papers, to mighty howling gales which cause devastation to structures and operations, causing consequent reorientation of purpose and rebuilding. Sometimes, however, the winds die down to give periods of relative calm, periods of relative organisational stability. Such a period was the agricultural age, which Goodman (1995) maintains prevailed in Europe and western societies as a whole until the early 1700s. During this period, wealth was created in the context of an agriculturally based society influenced mainly by local markets (both customer and labour) and factors outside people's control, such as the weather. During this time, people could fairly well predict the cycle of activities required to maintain life, even if that life might be at little more than subsistence level.

**B** To maintain the meteorological metaphor, stronger winds of change blew to bring in the Industrial Revolution and the industrial age. Again, according to Goodman, this lasted for a long time, until around 1945. It was characterised by a series of inventions and innovations that reduced the number of people needed to work the land and, in turn, provided the means of production of hitherto rarely obtainable goods; for organisations, supplying these in ever increasing numbers became the aim. To a large extent, demand and supply were predictable, enabling . companies to structure their organisations along what Burns and Stalker (1966) described as mechanistic lines, that is as systems of strict hierarchical structures and firm means of control.

**C** This situation prevailed for some time, with demand still coming mainly from the domestic

market and organisations striving to fill the 'supply gap'. Thus the most disturbing environmental influence on organisations of this time was the demand for products, which outstripped supply. The saying attributed to Henry Ford that 'You can have any colour of car so long as it is black', gives a flavour of the supply-led state of the market. Apart from any technical difficulties of producing different colours of car, Ford did not have to worry about customers' colour preferences: he could sell all that he made. Organisations of this period can be regarded as 'task-oriented', with effort being put into increasing production through more effective and efficient production processes.

**D** As time passed, this favourable period for organisations began to decline. In the neo-industrial age, people became more discriminating in the goods and services they wished to buy and, as technological advancements brought about increased productivity, supply overtook demand. Companies began, increasingly, to look abroad for additional markets.

**E** At the same time, organisations faced more intensive competition from abroad for their own products and services. In the West, this development was accompanied by a shift in focus from manufacturing to service, whether this merely added value to manufactured products, or whether it was service in-its own right. In the neo-industrial age of western countries, the emphasis moved towards adding value to goods and services - what Goodman calls the value-oriented time, as contrasted with the task-oriented and products/services-oriented times of the past.

**F** Today, in the post-industrial age, most people agree that organisational life is becoming ever more uncertain, as the pace of change quickens and the future becomes less predictable. Writing in 1999, Nadler and Tushman, two US academics, said: 'Poised on the eve of the next century, we are witnessing a profound transformation in the very nature of our business organisations. Historic forces have converged to fundamentally reshape the scope, strategies, and structures of large enterprises.' At a less general level of analysis, Graeme Leach, Chief Economist at the British Institute of Directors, claimed in the Guardian newspaper (2000) that: 'By 2020, the nine-to-five rat race will be extinct and present levels of self-employment, commuting and technology use, as well as age and sex gaps, will have changed beyond recognition.' According to the article, Leach anticipates that: 'In 20 years time, 20-25 percent of the workforce will be temporary workers and many more will be flexible, ... 25 percent of people will no longer work in a traditional office and ... 50 percent will work from home in some form.' Continuing to use the 'winds of change' metaphor, the expectation's of damaging gale-force winds bringing the need for rebuilding that takes the opportunity to incorporate new ideas and ways of doing things.

**G** Whether all this will happen is arguable. Forecasting the future is always fraught with difficulties. For instance, Mannermann (1998) sees future studies as part art and part science and notes: 'The future is full of surprises, uncertainty, trends and trend breaks, irrationality and rationality, and it is changing and escaping from our hands as time goes by. It is also the result



of actions made by innumerable more or less powerful forces.’ What seems certain is that the organisational world is changing at a fast rate - even if the direction of change is not always predictable. Consequently, it is crucial that organisational managers and decision makers are aware of, and able to analyse the factors which trigger organisational change.

### Questions 14-18

Reading Passage 2 has SEVEN paragraphs, A-G.

Which paragraph contains the following information?

Write the correct letter, A-G.

- 14  some specific predictions about businesses and working practices
- 15  reference to the way company employees were usually managed
- 16  a warning for business leaders
- 17  the description of an era notable for the relative absence of change
- 18  a reason why customer satisfaction was not a high priority

### Questions 19-23

Look at the following characteristics (Questions 19-23) and the list of periods below.

Match each characteristic with the correct period, A, B or C.

Write the correct letter, A, B or C.

**NB** You may use any letter **more than once**.

- 19  a surplus of goods.
- 20  an emphasis on production quantity.
- 21  the proximity of consumers to workplaces.
- 22  a focus on the quality of goods.



23  new products and new ways of working.

| List of periods |                         |
|-----------------|-------------------------|
| A               | The agricultural age.   |
| B               | The industrial age.     |
| C               | The neo-industrial age. |

## Questions 24-26

Complete the summary below.

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

### Businesses in the 21st century

It is generally agreed that changes are taking place more quickly now, and that organisations are being transformed. One leading economist suggested that by 2020, up to a quarter of employees would be 24  and half of all employees would be based in the 25 . Although predictions can be wrong, the speed of change is not in doubt, and business leaders need to understand the 26  that will be influential.

# READING PASSAGE 3

You should spend about 20 minutes on Questions 27-40, which are based on Reading Passage 3 below.



## The creation of lasting memories

Many studies of the brain processes underlying the creation of memory consolidation (lasting memories) have involved giving various human and animal subjects treatment, while training them to perform a task. These have contributed greatly to our understanding.

In pioneering studies using goldfish, Bernard Agranoff found that protein synthesis inhibitors injected after training caused the goldfish to forget what they had learned. In other experiments, he administered protein synthesis inhibitors immediately before the fish were trained. The remarkable finding was that the fish learned the task completely normally, but forgot it within a few hours - that is, the protein synthesis inhibitors blocked memory consolidation, but did not influence short-term memory.

There is now extensive evidence that short-term memory is spared by many kinds of treatments, including electro-convulsive therapy (ECT), that block memory consolidation. On the other hand, and equally importantly, neuroscientist Ivan Izquierdo found that many drug treatments can block short-term memory without blocking memory consolidation. Contrary to the hypothesis put forward by Canadian psychologist Donald Hebb, in 1949, long-term memory does not require short-term memory, and vice versa.

Such findings suggest that our experiences create parallel, and possibly independent stages of memory, each with a different life span. All of this evidence from clinical and experimental studies strongly indicates that the brain handles recent and remote memory in different ways; but why does it do that?

We obviously need to have memory that is created rapidly: reacting to an ever and rapidly

changing environment requires that. For example, most current building codes require that the heights of all steps in a staircase be equal. After taking a couple of steps, up or down, we implicitly remember the heights of the steps and assume that the others will be the same. If they are not the same, we are very likely to trip and fall. Lack of this kind of rapidly created implicit memory would be bad for us and for insurance companies, but perhaps good for lawyers. It would be of little value to us if we remembered the heights of the steps only after a delay of many hours, when the memory becomes consolidated.

The hypothesis that lasting memory consolidates slowly over time is supported primarily by clinical and experimental evidence that the formation of long-term memory is influenced by treatments and disorders affecting brain functioning. There are also other kinds of evidence indicating more directly that the memories consolidate over time after learning. Avi Kami and Dov Sagi reported that the performance of human subjects trained in a visual skill did not improve until eight hours after the training was completed, and that improvement was even greater the following day. Furthermore, the skill was retained for several years.

Studies using human brain imaging to study changes in neural activity induced by learning have also reported that the changes continue to develop for hours after learning. In an innovative study using functional imaging of the brain, Reza Shadmehr and Henry Holcomb examined brain activity in several brain regions shortly after human subjects were trained in a motor learning task requiring arm and hand movements. They found that while the performance of the subjects remained stable for several hours after completion of the training, their brain activity did not; different regions of the brain were predominantly active at different times over a period of several hours after the training. The activity shifted from the prefrontal cortex to two areas known to be involved in controlling movements, the motor cortex and cerebellar cortex. Consolidation of the motor skill appeared to involve activation of different neural systems that increased the stability of the brain processes underlying the skill.

There is also evidence that learning-induced changes in the activity of neurons in the cerebral cortex continue to increase for many days after the training. In an extensive series of studies using rats with electrodes implanted in the auditory cortex, Norman Weinberger reported that, after a tone of specific frequency was paired a few times with footshock, neurons in the rats' auditory cortex responded more to that specific tone and less to other tones of other frequencies. Even more interestingly, the selectivity of the neurons' response to the specific tone used in training continued to increase for several days after the training was terminated.

It is not intuitively obvious why our lasting memories consolidate slowly. Certainly, one can wonder why we have a form of memory that we have to rely on for many hours, days or a lifetime, that is so susceptible to disruption shortly after it is initiated. Perhaps the brain system that consolidates long-term memory over time was a late development in vertebrate evolution. Moreover, maybe we consolidate memories slowly because our mammalian brains are large and enormously complex. We can readily reject these ideas. All species of animals studied to

date have both short and long-term memory; and all are susceptible to retrograde amnesia. Like humans, birds, bees, and molluscs, as well as fish and rats, make long-term memory slowly. Consolidation of memory clearly emerged early in evolution, and was conserved.

Although there seems to be no compelling reason to conclude that a biological system such as a brain could not quickly make a lasting memory, the fact is that animal brains do not. Thus, memory consolidation must serve some very important adaptive function or functions. There is considerable evidence suggesting that the slow consolidation is adaptive because it enables neurobiological processes occurring shortly after learning to influence the strength of memory for experiences. The extensive evidence that memory can be enhanced, as well as impaired, by treatments administered shortly after training, provides intriguing support for this hypothesis.

### Questions 27-31

Choose the correct letter, A, B, C or D.

27 Experiments by Bernard Agranoff described in Reading Passage 3 involved

- A injecting goldfish at different stages of the experiments.
- B training goldfish to do different types of task.
- C using different types of treatment on goldfish.
- D comparing the performance of different goldfish on certain tasks.

28 Most findings from recent studies suggest that

- A drug treatments do not normally affect short-term memories.
- B long-term memories build upon short-term memories.
- C short and long-term memories are formed by separate processes.
- D ECT treatment affects both short-and long-term memories.

29 In the fifth paragraph, what does the writer want to show by the example of staircases?

- A Prompt memory formation underlies the performance of everyday tasks.
- B Routine tasks can be carried out unconsciously.
- C Physical accidents can impair the function of memory.
- D Complex information such as regulations cannot be retained by the memory.

30 Observations about memory by Kami and Sagi

- A cast doubt on existing hypotheses.
- B related only to short-term memory.
- C were based on tasks involving hearing.
- D confirmed other experimental findings.

31 What did the experiment by Shadmehr and Holcomb show?

- A Different areas of the brain were activated by different tasks.
- B Activity in the brain gradually moved from one area to other areas.
- C Subjects continued to get better at a task after training had finished.
- D Treatment given to subjects improved their performance on a task.

### Questions 32-36

Do the following statements agree with the views of the writer in Reading Passage 3?

Write

|           |                                                              |
|-----------|--------------------------------------------------------------|
| YES       | if the statement agrees with the views of the writer         |
| NO        | if the statement contradicts the views of the writer         |
| NOT GIVEN | if it is impossible to say what the writer thinks about this |

32   The training which Kami and Sagi's subjects were given was repeated over several days.

33   The rats in Weinberger's studies learned to associate a certain sound with a specific experience.

34   The results of Weinberger's studies indicated that the strength of the rats' learned associations increases with time.

35   It is easy to see the evolutionary advantage of the way lasting memories in humans are created.

36   Long-term memories in humans are more stable than in

many other species.

### Questions 37-40

Complete the summary using the list of words, A-I, below

#### Long-term memory

Various researchers have examined the way lasting memories are formed.

Laboratory experiments usually involve teaching subjects to do something

37  and treating them with mild electric shocks or drugs.

Other studies monitor behaviour after a learning experience, or use sophisticated equipment to observe brain activity.

The results are generally consistent: they show that lasting memories are the result

of a 38  and complex biological process.

The fact that humans share this trait with other species, including animals with

39  brains, suggests that it developed 40  in our

evolutionary history.

|   |          |
|---|----------|
| A | early    |
| B | easy     |
| C | large    |
| D | late     |
| E | lengthy  |
| F | new      |
| G | recently |
| H | small    |
| I | quick    |



## Solution:

### Part 1: Question 1 - 13

- |                     |                   |
|---------------------|-------------------|
| 1 100/a hundred     | 2 50%/50 percent  |
| 3 (mainly) water    | 4 energy monitors |
| 5 diesel generators | 6 insulation      |
| 7 greenhouses       | 8 FALSE           |
| 9 TRUE              | 10 NOT GIVEN      |
| 11 TRUE             | 12 FALSE          |
| 13 TRUE             |                   |

### Part 2: Question 14 - 26

- |      |      |
|------|------|
| 14 F | 15 B |
| 16 G | 17 A |
| 18 C | 19 C |
| 20 B | 21 A |
| 22 C | 23 B |



24 temporary

25 home

26 factors

**Part 3: Question 27 - 40**

27 A

28 C

29 A

30 D

31 B

32 NOT GIVEN

33 YES

34 YES

35 NO

36 NOT GIVEN

37 F

38 E

39 H

40 A