

4 READING (10 marks)

Read the following sentences about the different forms of energy available. Match the sentences in Part One with the correct sentences in Part Two and write the correct letter in each box.

Part One

- 1 ☒ Muscles and wood were the first sources of energy used by early man.
- 2 ☐ Coal made the Industrial Revolution in the nineteenth century possible.
- 3 ☐ Today we depend on oil more than any other fuel.
- 4 ☐ Gas is considered as a 'mineral' because, together with coal, it is part of the earth's crust.
- 5 ☐ Hydroelectric power is used to produce electricity.
- 6 ☐ Geothermal energy is produced from the heat stored in the earth's core.
- 7 ☐ The wind was used as a power source over 1,300 years ago in Persia when the first windmill was built to turn a millstone.
- 8 ☐ Waves have enormous power.
- 9 ☐ Incoming tides can be trapped behind a dam across a bay or an estuary.
- 10 ☐ A huge amount of solar energy reaches the earth's outer atmosphere.
- 11 ☐ Nuclear fuels, such as uranium-235 and plutonium, can be made to produce immense heat by a process called 'fission'.

Part Two

- A Like oil, it is a fossil fuel and is thus a non-renewable source of energy.
- B One danger, however, is in getting rid of the radioactive wastes which are produced.
- C They increase and decrease more slowly than the wind, thus making them easier to use as a source of energy.
- D It was the first fossil fuel to be used to power machinery.
- E However, it is thinly spread, and collecting it in countries like Britain and northern Europe is still difficult and expensive.
- F It is used as fuel in cars, ships and aeroplanes, and even in rockets.
- G It is produced by the fall of water trapped in a dam.
- H It took thousands of years to progress to using coal on a large scale.

I This internal heat helps to produce geysers and steam springs and can be used to generate electricity in countries like New Zealand.

J The water is then allowed to flow out past water wheels as the tide goes out.

K For modern purposes, however, it is necessary to build a machine which can store the energy obtained for use on calm days.

5 READING (10 marks)

Read the following paragraph about the use of solar energy. Every ninth word is missing. Write the correct word in each blank.

About twenty per cent of the world's present energy already comes from the sun in one form or another. Special devices have already been made available to ¹ place/put on the roofs of houses and flats to ² _____ the sun's rays and thus heat water. Thousands ³ _____ these devices are now being used to provide ⁴ _____ in homes throughout the United States while more ⁵ _____ a million solar water-heating units have already been ⁶ _____ in homes in Japan. Other purposes for which ⁷ _____ energy is at present being used include the ⁸ _____ of salt from seawater, irrigation and sewage disposal. ⁹ _____ most people in developing countries, the need is ¹⁰ _____ for air-conditioners or central heating but for cheap ¹¹ _____ of cooking food, drying crops and lighting homes.

ENERGY

1 GRAMMAR RECOGNITION (10 marks)

Read the following paragraph. Put a circle round the letter of the correct word or words to use in each blank.

When man first learned how to make a fire, he began to use fuel for the first time. The first fuel he used was probably wood. As time ¹ _____, man eventually discovered that substances such as coal and oil ² _____.

Coal ³ _____ very widely as a source of energy until the last century. With the coming of the industrial revolution, it was soon realised that production ⁴ _____ if coal was used instead of wood. Nowadays, many of the huge factories and electricity generating stations ⁵ _____ to function if there was no coal.

In the last twenty or thirty years, however, the use of coal ⁶ _____. As a result, there have been changes in the coal industry. It ⁷ _____ that more people ⁸ _____ coal if oil and gas were not so readily available.

There is more than enough coal in the world for man's needs for the next two hundred years if our use of coal ⁹ _____. Unfortunately, however, about half of the world's coal ¹⁰ _____. Mining much of it ¹¹ _____ very expensive even if it was possible to use new equipment.

- 1 A passes B used to pass C would pass **(D) passed**
- 2 A are burning B would burn C have burnt D were burnt
- 3 A not used B did not use C not using D was not used
- 4 A doubles B had doubled C will double D would double
- 5 A were unable B would be unable C will be unable D are unable
- 6 A has declined B will decline C declines D would decline
- 7 A believed B is believing C believing D is believed
- 8 A would use B used C use D will use
- 9 A did not increase B would not increase C does not increase D may not increase
- 10 A would never use B may never be used C would never be used D may never use
- 11 A was B used to be C would be D has been

2 GRAMMAR PRODUCTION (10 marks)

Read the following paragraph about oil and gas supplies. One word is missing from each line. Put an oblique stroke (/) where the word has been omitted and write the missing word in each blank.

Although the world's energy resources/taken many 1 _____ *have* millions of years to produce, we quickly beginning 2 _____ to exhaust these supplies. Recently UN committee 3 _____ reported that world's oil and gas supplies 4 _____ would about 100 years if used carefully. The report 5 _____ stated that there be enough oil and gas for a century 6 _____ only if the present demand could controlled. If the 7 _____ demand continued grow, the report said that fuel 8 _____ supplies last for less than forty years. According 9 _____ to the report, governments now take steps to 10 _____ control the amounts of fossil fuels are used. 11 _____

3 VOCABULARY (10 marks)

Put a circle round the letter of the best word to use in each blank.

There is now increasing concern about the world's energy ¹ _____, particularly about those involving fossil ² _____. In less than a hundred years we shall probably ³ _____ all the present ⁴ _____ of oil and gas. The world's coal ⁵ _____ should last longer but, once used, these cannot be ⁶ _____. It is important, therefore, that we should develop such ⁷ _____ sources of energy as solar energy and nuclear energy as well as water and wind ⁸ _____ (classed as ⁹ _____ energy). Until these energy ¹⁰ _____ are widely used, it is important for the developed countries to reduce energy ¹¹ _____ as much as possible.

- 1 A possessions **(B) resources** C goods D materials
- 2 A fuels B powers C forms D energies
- 3 A end B complete C total D exhaust
- 4 A findings B productions C amounts D sources
- 5 A reserves B stores C mines D contents
- 6 A updated B repeated C renewed D produced
- 7 A traditional B alternative C revolutionary D surprising
- 8 A force B strength C power D motion
- 9 A repeatable B continual C renewable D continuous
- 10 A goods B supplies C provisions D materials
- 11 A exhaustion B destruction C waste D consumption