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DUNMAN HIGH SCHOOL PROMOTIONAL EXAMINATION Year 5

HIGHER 1 GEOGRAPHY

8834

Wednesday

27 September 2023

1 hour 40 mins

Additional materials: 1 Insert

READ THESE INSTRUCTIONS FIRST

If you have been given an Answer Booklet, follow the instructions on the front cover of the Booklet.

Write your class, index number and name on the work you hand in.

Write in dark blue or black pen on both sides of the paper.

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

Answer Question 1 in **Section A**.

Answer Question 2 in **Section B**.

The number of marks is given in the brackets [] at the end of each question or part question.

Section A**Cluster 2 Fieldwork**

- 1** A student from Loyalty Junior College (JC) carried out fieldwork to investigate the effectiveness of his school's climate change initiatives. The school introduced 'Project Gaia' in May to promote recycling and a reduction in waste generation. The teachers shared the message with the students. Additionally, monthly recycling drives were also organised.

The student used secondary data to craft a questionnaire. He then conducted a survey and focus group discussion in July. This process was repeated with a separate group of participants in September.

Resource 1A shows the breakdown of the student population by gender. Resource 1B shows the breakdown of the student respondents for the survey by gender. Resource 1C shows the breakdown of the respondents for the focus group discussion by gender. Resource 2A shows responses to selected questions of the questionnaire. Resource 2B shows an excerpt from a respondent's sharing at the focus group discussion of the effectiveness of 'Project Gaia'.

- (a) Suggest a suitable research question for the investigation. Explain your choice of research question. [4]
- (b) Explain the types of secondary data the students needed to examine the research question outlined in (a). [3]
- (c) Explain **three** criteria the student could use to select participants for the focus group discussion. [3]
- (d) Represent the data from Question 7A and 7B in Resource 2A using a suitable method. [5]
- (e) Using Resources 2A and 2B, explain whether the data is useful in showing the effectiveness of 'Project Gaia'. [5]
- (f) Evaluate the accuracy and reliability of the student's investigation of 'Project Gaia'. [10]

Section B**Cluster 1 Sustainable Future and Climate Change**

- 2** A response to mitigate climate change is the use of alternative energy resources. Alternative energy resources refer to energy sources other than fossil fuels.

Resource 3 shows alternative energy generation in the world by source between 1990 and 2021. Resource 4 shows the types of energy resources used for electricity generation in selected countries in 2017. Resource 5 shows the predicted change in fossil fuel production in selected countries in 2030 compared to 2019.

- (a)** Using Resource 3, compare the information for energy generation in the world by the different types of energy sources. [4]
- (b)** Describe the variations in the types of energy resources used for electricity generation for the countries shown in Resource 4. [4]
- (c)** Using Resource 5, describe the predicted change in fossil fuel production. [4]
- (d)** Suggest two reasons for the trends observed in United Kingdom as seen in Resource 5. [2]
- (e)** Explain the political and economic challenges developing countries face in implementing mitigation strategies (such as the use of alternative energy) when responding to climate change. [6]

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