



VICTORIA JUNIOR COLLEGE

2023 JC1 Promotional Examinations

H2 GEOGRAPHY

9173

3 hours

READ THESE INSTRUCTIONS FIRST

Write your name and index number 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 **all** questions.

The Insert contains all the Resources referred to in the questions.
You should make reference to appropriate examples studied in the field or the classroom, even where such examples are not specifically requested by the question.
Diagrams and sketch map should be drawn whenever they serve to illustrate and answer.
You are reminded of the need for good English and clear presentation of your answers.

At the end of the examination fasten all your work securely together.
The number of marks is given in brackets [] at the end of each question or part question.

Section A

Topic 3.2: The Future with Climate Change

Climate Change in India

- 1** Resource 1 shows agriculture's contribution to greenhouse gas emissions in 2015. Resource 2 shows the distribution of climate sensitivities in India. Resource 3 shows some extreme weather events in India caused by climate change.
- (a)** With the aid of examples on different scales, explain the concept of climate variability. [4]
 - (b)** Using Resource 1, describe how agriculture contributed to greenhouse gas emissions. [4]
 - (c)** Using Resource 2, describe the distribution of climate sensitivities in India. [4]
 - (d)** Suggest reasons for the distribution of climate sensitivities in India. [6]
 - (e)** Suggest adaptation strategies that India can implement to cope with extreme weather events shown in Resource 3. [6]
 - (f)** Explain how climate change may threaten sustainable development in India. [6]

Section B

Topic 1.1: Environment and Resources

Energy Sources in China and Hydropower Dams in Mekong River

- 2** Resource 4 shows China's projected energy source in 2025 and 2060. Resource 5 shows the life cycle of coal from extraction to electricity. Resource 6 shows the locations of hydropower dams along Mekong River. Resource 7 shows an article on the impacts of hydropower dams in Mekong River.
- (a)** Using an example for each, explain what it meant by renewable and non-renewable resources. [4]
 - (b)** Describe the projected changes in China's energy sources from 2025 to 2060 as shown in Resource 4. [4]
 - (c)** With reference to Resource 5, explain the negative impacts of coal as an energy source. [6]
 - (d)** Describe the distribution of hydropower dams along Mekong River as shown in Resource 6. [4]
 - (e)** With reference to Resource 7, explain the effects of the construction of hydropower projects along Mekong River. [6]
 - (f)** With reference to Resource 7, explain how resource appraisal by different riparian stakeholders result in challenges in resolving conflicts surrounding the hydropower projects in Mekong River. [6]

Section C

Answer **both** questions.

- 3** Evaluate the significance of anthropogenic activities in contributing to climate change.
[20]
- 4** To what extent are the views of Thomas Malthus and Esther Boserup on the relationship between population and resources relevant today?
[20]