



RIVER VALLEY HIGH SCHOOL  
General Certificate of Education Advanced Level  
Preliminary Examination 2024  
Higher 2

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## **GEOGRAPHY**

**9173/01**

Paper 1

**9 September 2024**

**3 hours**

Additional Materials: 1 Insert

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### **READ THESE INSTRUCTIONS FIRST**

An answer booklet will be provided with this question paper. You should follow the instructions on the front cover of the answer booklet. If you need additional answer paper ask the invigilator for a continuation booklet.

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 maps should be drawn whenever they serve to illustrate an answer.

You are reminded of the need for good English and clear presentation in your answers.

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



This document consists of **4** printed pages and **1** Insert.

**[Turn over**

**Section A**

Answer **both** questions.

**Cluster 1: Development, Economy and Environment**

- 1** Resource 1 shows the location and amount of economically viable oil reserves at different oil prices in 2016. Resource 2 shows information produced by the Canadian government about the impacts of tar sand developments. Resource 3 shows a tar sand oil production area in Alberta, Canada. Resource 4 shows minerals and the associated geology found in part of northwest England.
- (a)** Citing data from Resource 1, describe the relationship between oil prices and the location and amount of economically viable oil reserves shown in Resource 1. [4]
  - (b)** Explain the differences between proven reserves, conditional reserves, and speculative reserves. [4]
  - (c)** With reference to Resources 2 and 3, explain how the expansion of tar sand developments can impact Canada's progress towards sustainable development. [7]
  - (d)** Explain the indicators that can be used to measure the level of economic growth and the degree of social inclusion in a country respectively. [4]
  - (e)** Cite data from Resource 4 to describe the relationship(s) between mineral mining sites and rock types. [4]
  - (f)** Explain the characteristics of extractive industries such as that of mineral mining. [7]

## Cluster 2: Tropical Environments

- 2** Resource 5 shows the temporal distribution of reported mass movement events in Western Cape, South Africa. Resource 6A shows the percentage of land that is very highly susceptible to landslides in the districts of Kerala, India. Resource 6B shows the districts of Kerala, India. Resource 7 shows an abstract from a news article on the causes of the 30 July 2024 landslide near Meppadi in Wayanad district, Kerala. Resource 8 shows the land use map of the Mekong Delta in 2015.
- (a)** Citing data from Resource 5, compare the temporal distribution of flows with the temporal distribution of falls. [4]
  - (b)** Distinguish the processes of mass movement, water erosion and weathering. [4]
  - (c)** Citing data from Resources 6A and 6B, describe the spatial distribution of land that is very highly susceptible to landslides in the districts of Kerala, India. [4]
  - (d)** With reference to Resource 7, suggest reasons for the occurrence of the 30 July landslide near Meppadi in Wayanad district. [6]
  - (e)** Explain the role of geomorphic processes in the formation of deltas. [8]
  - (f)** With reference to Resource 8, explain the ecosystem services provided by deltas. [4]

**Section B**

Answer **either** question 3 **or** question 4 and answer **either** question 5 **or** question 6.

**Cluster 1: Development, Economy and Environment**

- 3 'The world's resource base will always be enough to support population growth.'  
Evaluate this statement. [20]
- 4 'The environmental impacts of the GPNs of TNCs are the most damaging in host economies.'  
Evaluate this statement. [20]

**Cluster 2: Tropical Environments**

- 5 Evaluate the variations in the effects of fluvial floods on places in the humid tropics. [20]
- 6 'Climate alone dictates the role of geomorphic processes in the formation of karst landforms.'  
Evaluate this statement. [20]