



NATIONAL JUNIOR COLLEGE
SH2 Preliminary Examinations
for General Certificate of Education Advanced Level
Higher 2

GEOGRAPHY

9173/01

Paper 1

19 August 2026

3 hours

Additional Materials: Insert

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.

Write your Centre number, 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.

Section A

Answer **both** questions.

Section B

Answer **two** questions, **one** from each cluster.

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

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

- 1** Boeing is an aerospace transnational corporation (TNC) based in the USA. It is involved in the design, manufacture and servicing of commercial aircraft. Its operations depend on specialised component suppliers, service locations and access to raw materials such as titanium. Ilmenite is the main ore from which titanium is obtained. Resource 1 shows selected global suppliers of major Boeing aircraft components. Resource 2 shows the locations of selected Boeing operations. Resource 3 shows ilmenite production and reserves in selected countries in 2006. Resource 4 shows the location where 1 million cubic metres of wastewater from ilmenite mining was released from the Rio Tinto QMM mine in southeastern Madagascar on 5 March 2022.
- (a)** Using Resources 1 and 2, describe Boeing's global production network. [5]
- (b)** With reference to Resources 1 and 2, suggest reasons for Boeing's global production network. [5]
- (c)** Compare ilmenite production and reserves for the countries shown in Resource 3. [5]
- (d)** Explain the socio-economic impacts of TNCs' decisions on labour in host countries. [6]
- (e)** With reference to Resource 4, suggest possible impacts that the release of mine wastewater could have had in southeastern Madagascar. [5]
- (f)** Explain the difficulties that some countries may face in measuring progress towards sustainable development. [4]

Cluster 2: Tropical Environments

- 2** Resource 5 shows flood injuries by province in Vietnam. Resource 6 shows land use in Lao Cai province in northern Vietnam in 1987 and 2022. Resource 7 shows a mass movement which affected Khanh village, located in Hoa Binh province in northern Vietnam, on 12 October 2017. Resource 8 shows hourly and cumulative rainfall in Khanh village from 10 to 12 October 2017.
- (a)** Using Resource 5, describe the distribution of flood injuries in Vietnam. [5]
 - (b)** Using Resource 6, describe the changes in land use in Lao Cai province from 1987 to 2022. [4]
 - (c)** Explain how land use changes may alter the characteristics of a storm hydrograph in a drainage basin. [5]
 - (d)** Using Resource 7, describe the characteristics of the mass movement shown. [5]
 - (e)** With reference to Resources 7 and 8, suggest factors that may have led to the occurrence of the mass movement. [6]
 - (f)** Explain how geomorphic processes may result in the development of a delta. [5]

Section B

Answer **either** Question 3 **or** Question 4, and answer **either** Question 5 **or** Question 6.

Cluster 1: Development, Economy and Environment

- 3** Evaluate the role of multilateral organisations in managing the opportunities and challenges of the global economy. [20]
- 4** 'Solar energy is the most sustainable solution to meeting rising energy demand.'
Evaluate this statement. [20]

Cluster 2: Tropical Environments

- 5** 'Fluvial floods in the humid tropics are becoming more difficult to manage.'
Evaluate this statement. [20]
- 6** Evaluate the influence of geological factors on the formation of karst landforms. [20]