TUESDAY, 1 MAY
9:00 AM – 11:15 AM

Total marks — 60

SECTION 1 — PHYSICAL ENVIRONMENTS — 15 marks
Attempt ALL questions.

SECTION 2 — HUMAN ENVIRONMENTS — 15 marks
Attempt ALL questions.

SECTION 3 — GLOBAL ISSUES — 20 marks
Attempt TWO questions.

SECTION 4 — APPLICATION OF GEOGRAPHICAL SKILLS — 10 marks
Attempt the question.

Credit will be given for appropriately labelled sketch maps and diagrams.
Write your answers clearly in the answer booklet provided. In the answer booklet you must clearly identify the question number you are attempting.
Use blue or black ink.
Before leaving the examination room you must give your answer booklet to the Invigilator; if you do not, you may lose all the marks for this paper.
SECTION 1 — PHYSICAL ENVIRONMENTS — 15 marks

Attempt ALL questions

Question 1

‘A drainage basin is an open system with four elements – inputs, storage, transfers and outputs.’

Discuss the movement of water within a drainage basin. 4

Question 2

Explain the various stages and processes involved in the formation of:

(i) one of the features of coastal erosion and,

(ii) one of the features of coastal deposition listed below.

You may wish to use diagrams.

<table>
<thead>
<tr>
<th>Features of coastal erosion</th>
<th>Features of coastal deposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headland and bay</td>
<td>Sand bar</td>
</tr>
<tr>
<td>Wave-cut platform</td>
<td>Tombolo</td>
</tr>
</tbody>
</table>
Study Diagram Q3.

Explain the main conditions and processes involved in the formation of a brown earth soil.
Question 4

Diagram Q4: Photograph of Kibera shanty town, Nairobi

Look at Diagram Q4.

Evaluate the effectiveness of strategies used to improve housing in Kibera or any other developing world city you have studied.
Question 5

Explain why it is difficult to gather accurate population data in developing world countries.

Question 6

Explain the strategies used to manage rural land degradation in a rainforest or semi-arid area that you have studied.
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<thead>
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<td>River basin management</td>
<td>07</td>
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<td>Question 8</td>
<td>Development and health</td>
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<td>Question 9</td>
<td>Global climate change</td>
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<td>Question 10</td>
<td>Trade, aid and geopolitics</td>
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<td>Question 11</td>
<td>Energy</td>
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</tbody>
</table>
Question 7: River basin management

(a) **Explain** the human factors which need to be considered when selecting a site for a major dam and its associated reservoir.

(b) Referring to a named water control project you have studied, **discuss** the socio-economic **and** environmental **benefits** created by the construction of a major dam and its associated reservoir.
Question 8: Development and health

(a) Suggest reasons for the wide variations in development which exist between developing countries. You may wish to refer to countries that you have studied. 5

(b) Referring to specific examples of primary health care strategies that you have studied, evaluate their effectiveness in meeting the needs of people in developing countries. 5
Question 9: Global climate change

(a) Discuss a range of possible impacts of global climate change.

(b) Attempts are being made to both reduce greenhouse gasses and deal with the effects of climate change.

Explain possible strategies for managing climate change.
Study Diagram Q10.

(a) **Suggest** reasons for the differences in trade shown in the graph.  

(b) **Explain** the socio-economic and environmental impacts of unfair trade on the developing world.
Look at Diagram Q11.

(a) **Suggest reasons** for the different methods of energy production around the world. You may wish to refer to countries you have studied.  

(b) **Discuss** the advantages and disadvantages of any **non-renewable** source of energy you have studied, in meeting the energy demands of a named country.  

[Turn over
Question 12

The UK Government has given the go ahead for a second high-speed railway service, known as HS2. Phase 1 between London and Birmingham is due for completion in 2026, however not everyone is pleased with this decision.

Study the Ordnance Survey map extract of the Birmingham area; Diagram Q12a; Diagram Q12b; Diagram Q12c; and Diagram Q12d before answering this question.

Referring to evidence from the OS map extract, and other information from the sources, discuss:

(a) the advantages and disadvantages of the proposed route of the HS2 line; and

(b) any possible impacts on the surrounding area.

Diagram Q12a: Route of high speed railway lines in England (current and proposed)

Diagram Q12b: Statement on HS2

HS2 will help accelerate the region’s economic growth, for example, the global bank HSBC is building its new headquarters in Birmingham city centre, and global construction company Interserve is consolidating its operations at a new regional head office next to Birmingham International Airport. A spokesperson said:

“By 2026 Birmingham Airport will be the UK’s only HS2 connected airport.”
Diagram Q12c: Route map of HS2 rail line Phase 1

Diagram Q12d: Concerns raised by local residents in two areas

- Disruption to existing transport
- Housing
- Noise pollution
- Visual pollution
- Wildlife
- Farming

Number of concerns

Area 1: Birmingham Interchange and Chelmsley Wood
Area 2: Balsall Common and Hampton in Arden
ACKNOWLEDGEMENTS
Diagram Q4 Authentic travel/Shutterstock.com
ORDNANCE SURVEY MAP
For Question 12

Note: The colours used in the printing of this map extract are indicated in the four little boxes at the top of the map extract. Each box should contain a colour; if any does not, the map is incomplete and should be returned to the Invigilator.