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General Certificate of Education
 June 2004
 Advanced Subsidiary Examination



**GEOGRAPHY (SPECIFICATION A)
 Unit 1**

GGA1

Monday 7 June 2004 Afternoon Session

In addition to this paper you will require:

- the insert (enclosed).

You may use a calculator.

Time allowed: 1 hour

Instructions

- Use blue or black ink or ballpoint pen for written answers. You may use pencil for maps, diagrams and graphs.
- Fill in the boxes at the top of this page.
- Answer **three** questions in the spaces provided: **two** from Sections A, B and C and **one** from Section D.
- Each question attempted must be from a different topic area.**
- Do all rough work in this book. Cross through any work you do not want marked.

Information

- The maximum mark for this paper is 50.
- Each question in Sections A, B and C is worth 15 marks.
- Each question in Section D is worth 20 marks.
- Mark allocations are shown in brackets.
- You will be assessed on your ability to use an appropriate form and style of writing, to organise relevant information clearly and coherently, and to use specialist vocabulary, where appropriate.
- The degree of legibility of your handwriting and the level of accuracy of your spelling, punctuation and grammar will also be taken into account.
- Answers should relate to your own geographical studies. These may relate to fieldwork.

Advice

- You are advised to spend about 35 minutes on **Sections A-C** and 25 minutes on **Section D**.

| For Examiner's Use | | | |
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SECTION A

Answer **one** question from this Section, **either** Question 1 **or** Question 2.
Each question carries 15 marks.

1 (a) Figure 1 (*insert*) shows the GAP river management Project in south east Turkey.

(i) Describe the likely river regime of the River Tigris at Mosul in Iraq before the start of the GAP Project.

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(2 marks)

(ii) **Figure 1** states the benefits of the GAP Project for Turkey. Identify the possible costs of this project for Turkey.

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(3 marks)

(iii) Give reasons why a river management scheme, such as this, might result in international conflict.

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(3 marks)

(b) Outline the links between river basin management and sustainable development.

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(7 marks)



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2 (a) **Figure 2** is a simplified systems diagram of the drainage basin component of the hydrological cycle.

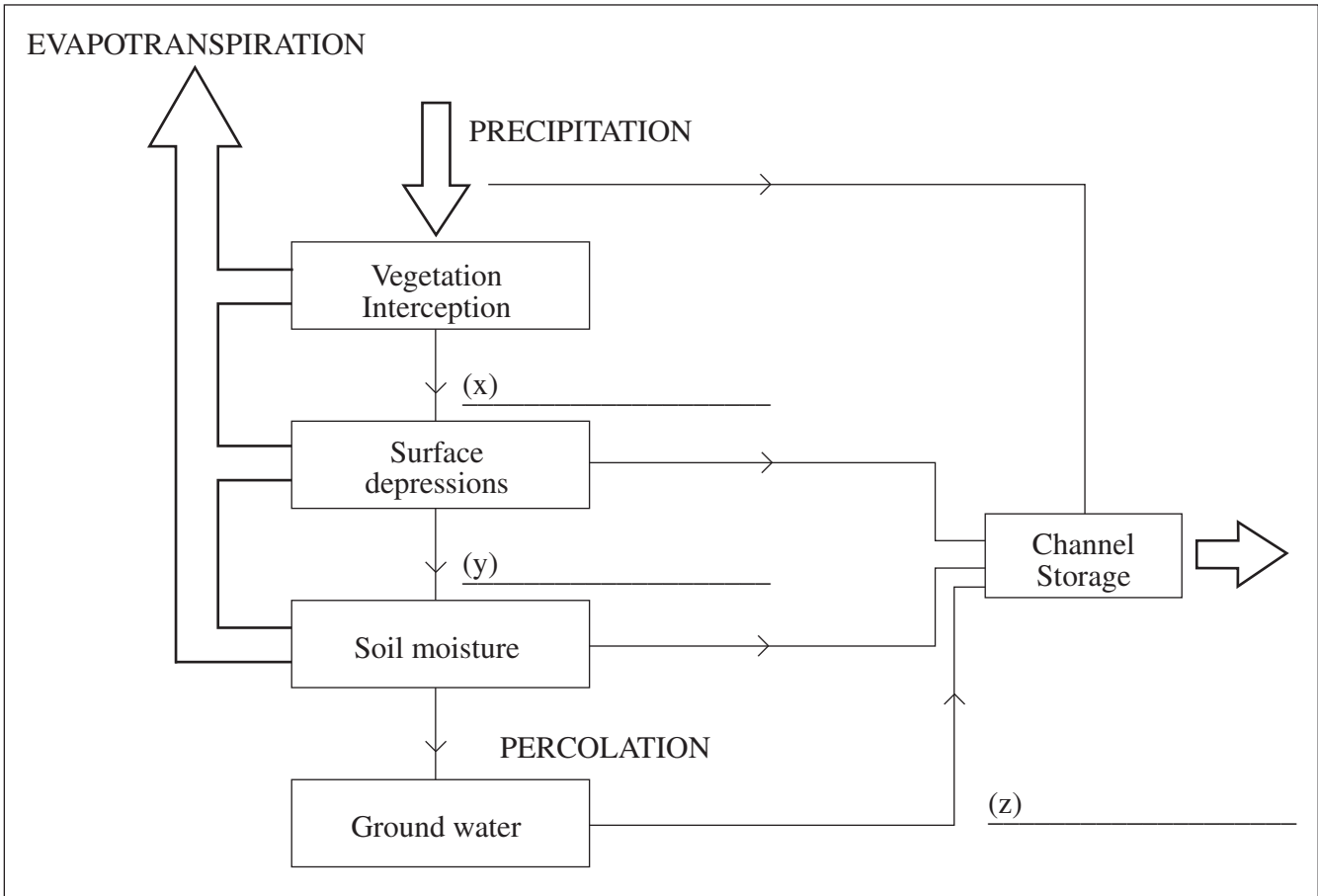


Figure 2

(i) Distinguish between the inputs and outputs of the drainage basin hydrological cycle.

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(2 marks)

(ii) Label the transfers x, y and z in the spaces provided on **Figure 2**. (3 marks)

(iii) State and give reasons for the relationship between run-off and vegetation within a drainage basin.

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(3 marks)

(b) In what ways have human activities increased the risk of flooding in recent years?

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SECTION B

Answer **one** question from this Section, **either** Question 3 **or** Question 4.
Each question carries 15 marks.

- 3 (a) **Figure 3** is an extract adapted from the BBC News on 27th October 2002 concerning the impact of a low pressure weather system over Wales.

Up to 45,000 homes in south Wales have been left without electricity today as power lines, hit by falling trees, were brought down by gusts of up to 160 km/hr. There have been reports of blocked roads, damage to buildings and fierce tides, with the worst of the weather expected in the early afternoon. In Cardiff, roads in the centre of the city have been shut off after panels on the upper floors of the BT building blew off. The old Severn Bridge has been closed and ferry sailings to Ireland have been disrupted. Flights into Cardiff Airport have been diverted and flood warnings issued along the coast. In north Wales, the National Trust Snowdonia Marathon has been cancelled for the first time in its 21-year history.

Figure 3

- (i) Use evidence from the extract to suggest why this was an exceptional storm.

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(2 marks)

- (ii) Outline the atmospheric processes responsible for the high winds associated with this weather system.

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(3 marks)

(iii) By the time this low pressure weather system reached eastern England, weather conditions were less severe. Suggest why this was the case.

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(3 marks)

(b) Why are human responses to strong winds in MEDCs very different from those in LEDCs?

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(7 marks)

4 (a) Figure 4 shows the atmospheric condition and wind direction experienced over India during the winter and summer monsoon.

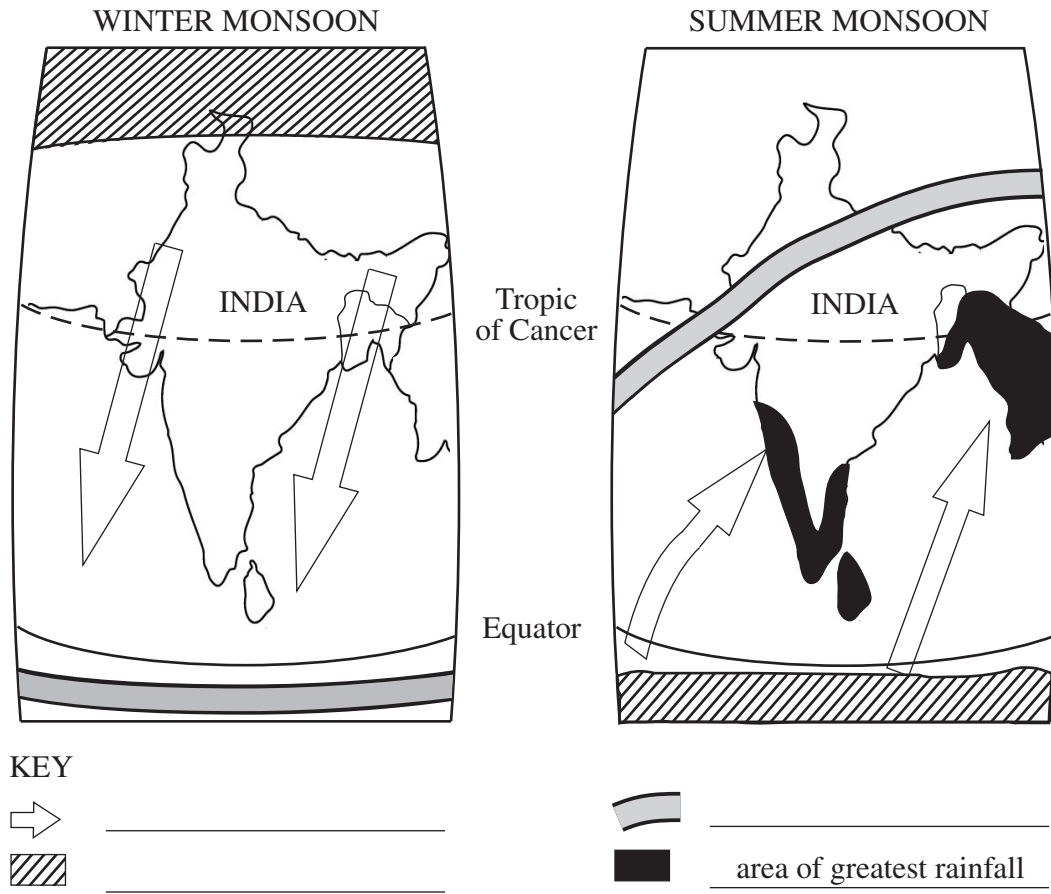


Figure 4

(i) Complete the key to Figure 4 by selecting the labels from the list below.

- area of high pressure inter-tropical convergence zone
- Hadley cell monsoon winds

(2 marks)

(ii) Describe the weather associated with the summer monsoon season.

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(3 marks)

(iii) Outline why there is a seasonal reversal in the wind direction over India.

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(3 marks)

(b) Explain how the Tropical Monsoon climate may provide both constraints and benefits for human activity.

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(7 marks)

SECTION C

Answer **one** question from this Section **either** Question 5 **or** Question 6.
Each question carries 15 marks.

- 5 (a) **Figures 5a and 5b** show seasonal differences in the nutrient cycle for a small deciduous wood in England.

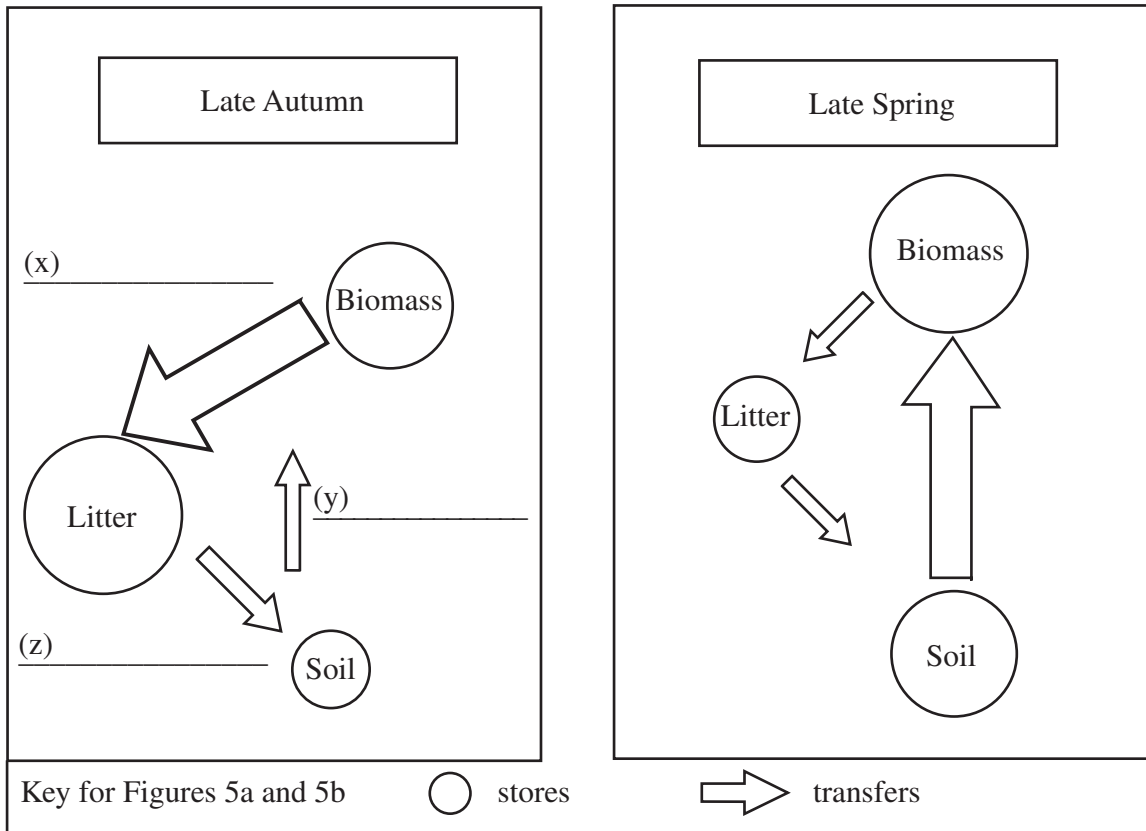


Figure 5a

Figure 5b

- (i) Name **one** input and **one** output from a nutrient cycle such as this.

Input:

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Output:

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(2 marks)

- (ii) Label the transfers x, y and z on **Figure 5a**.

(3 marks)

(iii) Suggest reasons for the differences in the sizes of the stores between **Figures 5a** and **5b**.

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(3 marks)

(b) Outline the biotic **and** abiotic elements of a small scale ecosystem you have studied.

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6 (a) **Figure 6** (*insert*) shows a photograph of Bali, an equatorial island in Indonesia.

(i) Describe the spatial variations in the vegetation shown in **Figure 6**.

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(2 marks)

(ii) There are differences in productivity between the contrasting vegetation types shown in **Figure 6**. Identify these differences.

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(3 marks)

(iii) Suggest reasons why the differences identified in (ii) exist.

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(3 marks)

(b) Referring to an example, outline the social and economic impacts of the deforestation of tropical rainforest.

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(7 marks)



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SECTION D

Answer **one** question from this Section; **either** Question 7, Question 8 **or** Question 9, on the lined pages that follow.

7 WATER ON THE LAND

You must **not** answer Question 7 if you have answered a Question in Section A.

With reference to an area you have studied, examine the international issues that can arise as a result of river management. *(20 marks)*

8 CLIMATIC HAZARDS AND CHANGE

You must **not** answer Question 8 if you have answered a Question in Section B.

Examine the view that ‘the severe impact of drought in the Sahel is a result of human inefficiency’. *(20 marks)*

9 ENERGY AND LIFE

You must **not** answer Question 9 if you have answered a Question in Section C.

Examine the factors influencing the formation of one zonal soil you have studied. *(20 marks)*

END OF QUESTIONS

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Question 1: Figure 1: <http://www.turkish-embassy.org.uk/infoturk/building.htm>

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GEOGRAPHY (SPECIFICATION A)
Unit 1

GGA1

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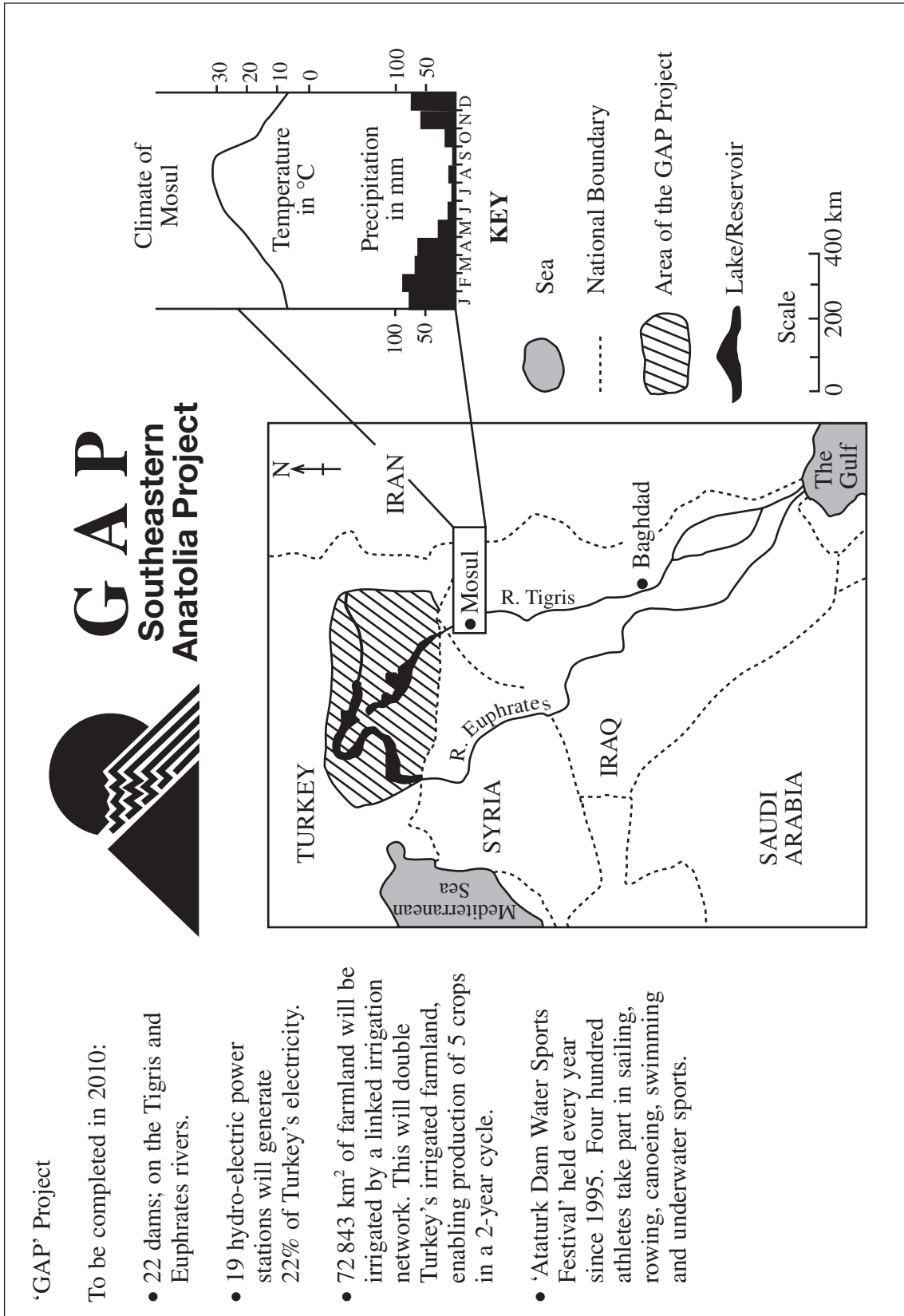


Figure 1
 (for use with Question 1)



Figure 6

(for use with Question 6)