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GEOGRAPHY
STANDARD LEVEL
PAPER 2

Friday 4 November 2011 (morning)

1 hour 20 minutes

INSTRUCTIONS TO CANDIDATES

- Do not open this examination paper until instructed to do so.
- Answer two questions.
- Each question must be selected from a different optional theme, A – G.
- Do not answer two questions on the same optional theme.
- Use case studies, examples, maps and/or diagrams where relevant.

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*Answer **two** questions. Each question must be selected from a different optional theme. (Do not answer two questions on the same optional theme.)*

Wherever possible, answers should include case studies and examples, and where relevant, large, well drawn maps and diagrams.

Optional Theme A — Freshwater – issues and conflicts

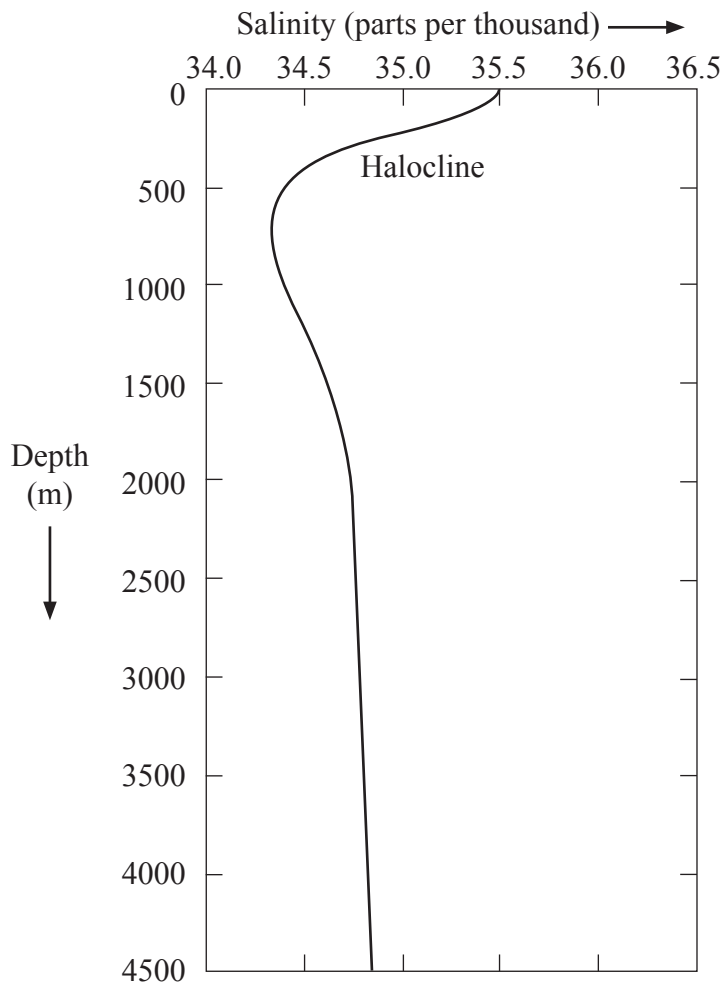1. *If you choose to answer this question refer to the diagram on page 4 in the Resources Booklet.*

   The diagram shows a river floodplain.

   (a) Referring to the diagram, briefly describe **two** floodplain management strategies. *[2+2 marks]*

   (b) Explain how human activities on a floodplain can increase the probability of flooding. *[6 marks]*

   (c) "Eutrophication is the most damaging agricultural impact on water quality." Discuss this statement. *[10 marks]*

2. (a) Draw a labelled diagram of a hydrograph. *[4 marks]*

   (b) Explain how hydrographs are used to forecast floods. *[6 marks]*

   (c) "Dams and reservoirs create as many problems as they solve." Discuss this statement with reference to multi-purpose schemes. *[10 marks]*

Optional Theme B — Oceans and their coastal margins

3. The graph shows vertical variations in the salinity of ocean water.

Salinity (parts per thousand) →

34.0   34.5   35.0   35.5   36.0   36.5

Halocline

Depth (m)

[Source: http://cimss.ssec.wisc.edu/sage/oceanography/lesson4/images/sm_salinity_depth.jpg]

(a)   Describe the vertical variations in the salinity shown on the graph.   *[4 marks]*

(b)   (i)   Explain what is meant by "oceanic conveyor belts".   *[2 marks]*

        (ii)   Suggest **two** reasons why oceanic conveyor belts are important.   *[2+2 marks]*

(c)   Discuss the effects of El Niño on some coastal margins.   *[10 marks]*

4.   *If you choose to answer this question refer to the map on pages 2 and 3 in the Resources Booklet.*

The map extract shows a coastal area in Ireland. The scale of the map is 1:50 000 and the contour interval is 50 metres.

   (a)   Using map evidence, describe the effects of deposition in Area A.   *[4 marks]*

   (b)   Using map evidence, explain **one** likely conflict between types of human activity in:

          (i)   Area A,

          (ii)   Area B.   *[2×3 marks]*

   (c)   Examine the sources and impacts of waste disposal in oceans.   *[10 marks]*

Optional Theme C — Extreme environments

5. *If you choose to answer this question refer to the photograph on page 4 in the Resources Booklet.*
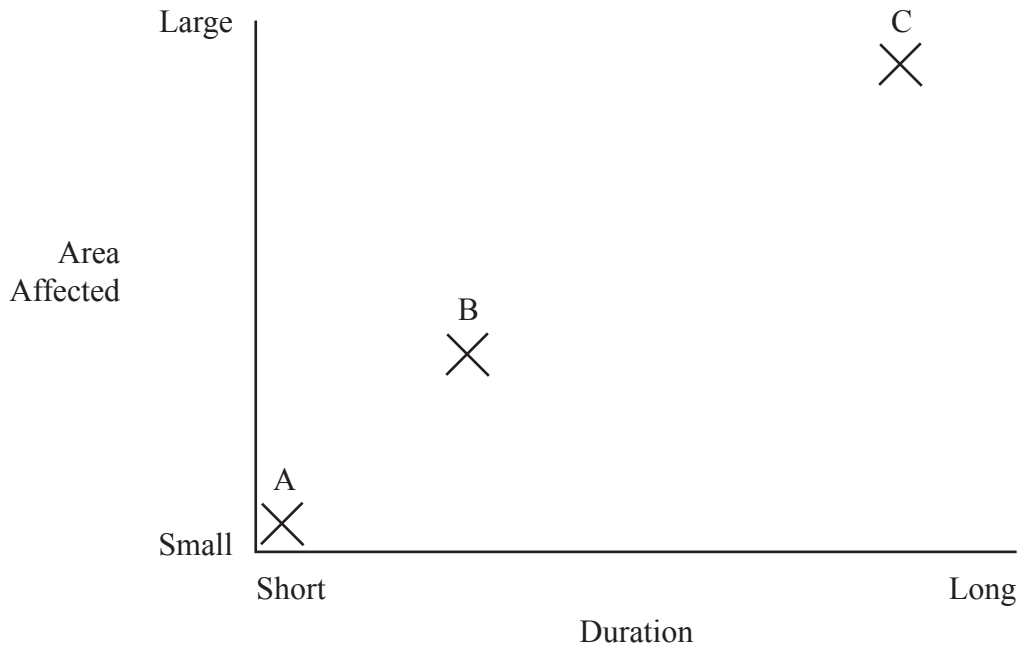
    The photograph shows an arid landscape.

    (a)   (i)   Name the landform in the background of the photograph.   *[1 mark]*

          (ii) State **two** processes of wind transport found in areas such as this.   *[2 marks]*

          (iii) State the direction from which the wind normally blows.   *[1 mark]*

    (b)   Explain the occurrence of flash floods in areas like the one shown in the photograph.   *[6 marks]*

    (c)   "The opportunities for tourism outweigh the challenges." Discuss this statement with reference to **one** extreme environment.   *[10 marks]*

6. (a)   (i)   Define *glacial environment*.   *[2 marks]*

          (ii) Define *periglacial environment*.   *[2 marks]*

    (b)   Explain how and why glaciers retreat.   *[3+3 marks]*

    (c)   "Periglacial areas offer more opportunities for human activity than glacial areas." Discuss this statement.   *[10 marks]*

Optional Theme D — Hazards and disasters – risk assessment and response

7. The diagram shows three natural hazards (A, B, C), their duration and the size of the area they affect.

(a) Identify **two** of the hazards shown and explain your choice. *[2+2 marks]*

(b) Analyse the global distribution of **one** of the hazards you identified in part (a). *[6 marks]*

(c) Using examples, evaluate the success of adjustment and response strategies for a named hazard type. *[10 marks]*

8. (a) Outline the methods used to describe the magnitude (strength) of **two** hazard types. *[2+2 marks]*

(b) Suggest **three** reasons why some people continue to live in places with a known hazard risk. *[3×2 marks]*

(c) "Economic factors and not physical factors determine the severity of the impacts of hurricanes (typhoons, cyclones)." Discuss this statement using examples. *[10 marks]*

Optional Theme E — Leisure, sport and tourism
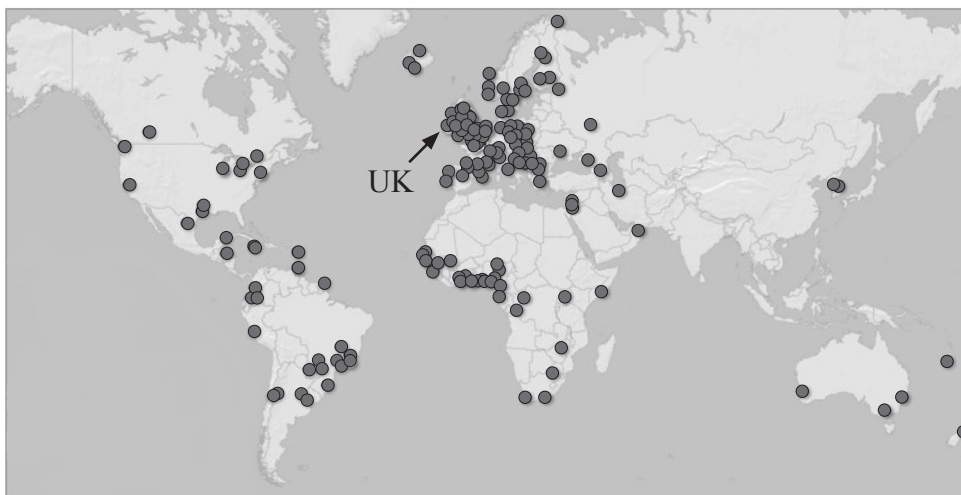
9.   The maps show the birth places of players in a sports league in the UK in 1990 and 2010.
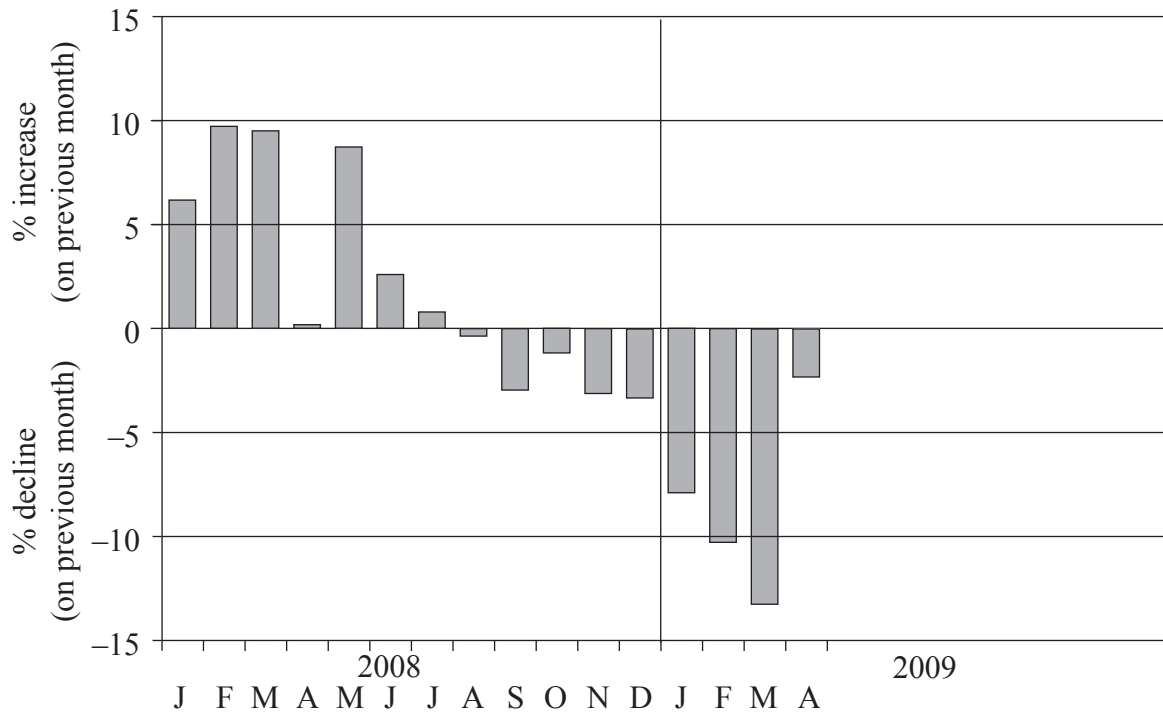
1990

Key:
● Player's birthplace

2010

[Source: adapted from http://news.bbc.co.uk/sport2/hi/football/eng_prem/8182090.stm]

(a)   Describe the pattern of birth places in 1990 and how it has changed by 2010.   *[2+2 marks]*

(b)   Suggest **three** possible reasons why the sphere of influence of this league's
supporters has grown in size since 1990.   *[3×2 marks]*

(c)   "Local people do not benefit from hosting an international sporting event."
Discuss this statement.   *[10 marks]*

10. The graph shows the monthly changes in international tourist arrivals worldwide from January 2008 to April 2009.

[Source: World Tourism Organization (UNWTO)]

(a) Describe the changes in international tourist arrivals shown in the graph. *[4 marks]*

(b) Explain **three** reasons why international tourist arrivals can change in **one** named rural or urban location. *[3×2 marks]*

(c) "Most recreational and sports facilities in urban areas are located near the city centre." Discuss this statement. *[10 marks]*
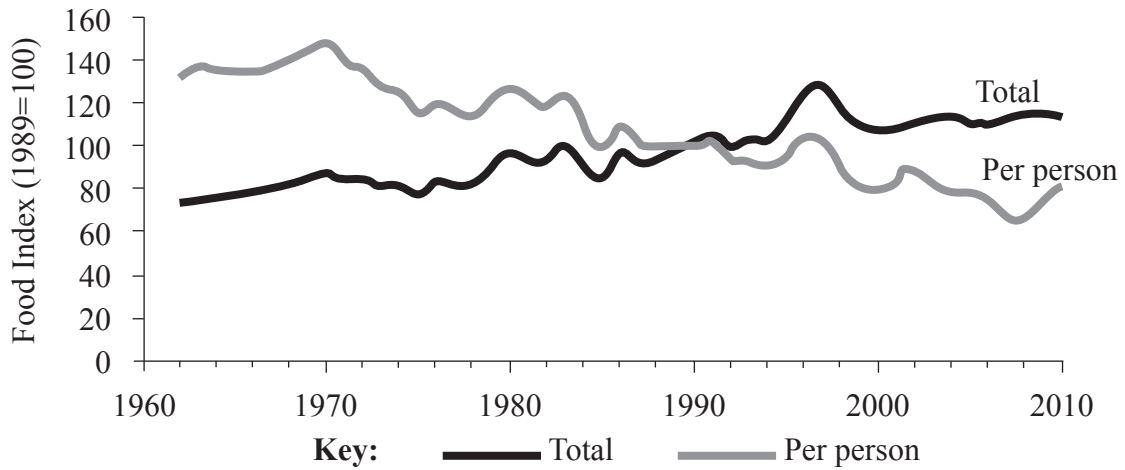
Optional Theme F — The geography of food and health

11. *If you choose to answer this question refer to the map on page 4 in the Resources Booklet.*

The map shows the rates of infection (number of cases per 10 000 people) for a water-borne disease in a city in India in 2003.

(a) (i) State **one** other indicator besides infection rates which could be used to map the health of people in this city. *[1 mark]*

(ii) Referring to the map, describe the pattern of this disease in the city. *[3 marks]*

(b) Explain **three** possible reasons, **one** environmental, **one** social and **one** economic, for this pattern. *[3×2 marks]*

(c) "Poverty is the main cause of food insecurity." Discuss this statement. *[10 marks]*

12.   The graph shows the total food production and food production per person in Country A, 1962–2010.

[Source: *Geofile* (Nelson Thornes, 2005)]

(a)   (i)   State the year when the index of total food production was greatest.   *[1 mark]*

      (ii) State the value of the food index per person in 1970.   *[1 mark]*

(b)   Describe the trend in total food production shown on the graph.   *[2 marks]*

(c)   Suggest reasons for the trends in total food production and in food production
      per person from 1962 to 2010.   *[6 marks]*

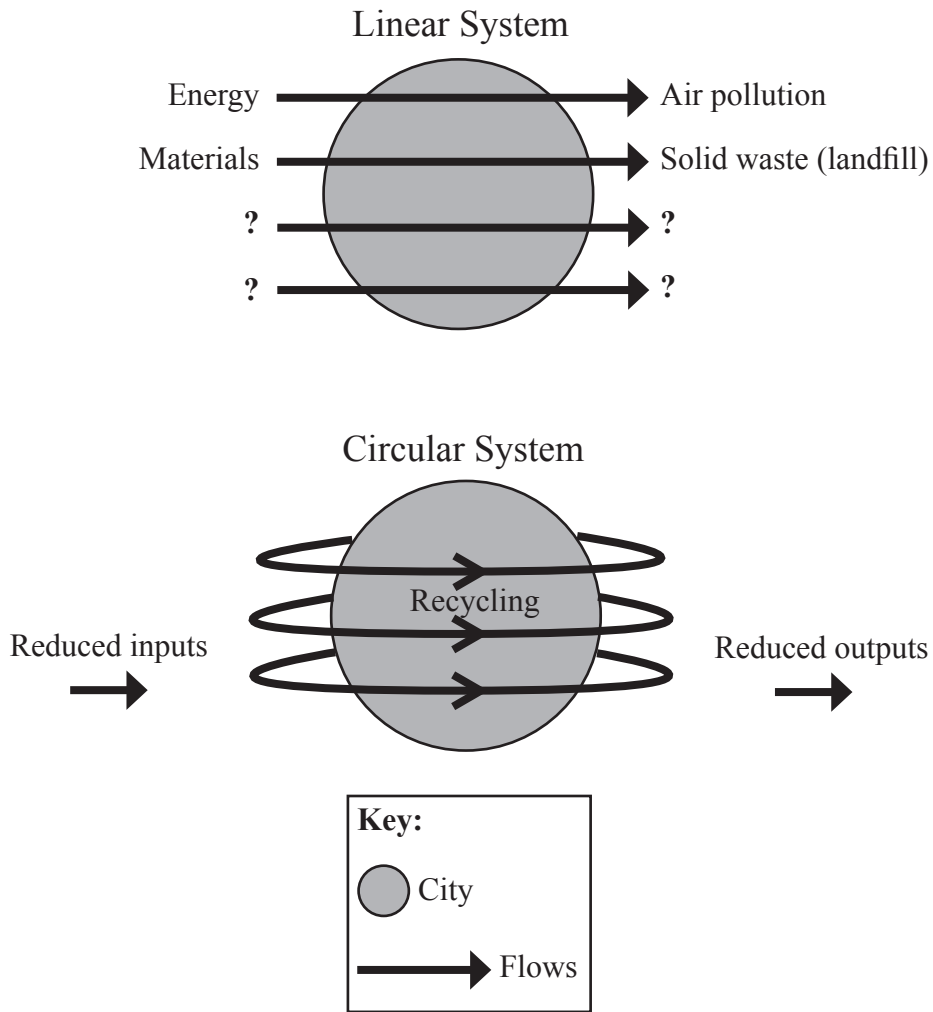(d)   Examine the geographic connections between food availability and health.   *[10 marks]*

Optional Theme G — Urban environments

13. *If you choose to answer this question refer to the map on page 4 in the Resources Booklet.*

The map shows the pattern of deprivation for Vancouver, one of Canada's wealthiest cities.

(a) Describe the pattern of deprivation shown on the map.   *[3 marks]*

(b) Explain how and why the pattern of deprivation might differ for a city in a low income country.   *[2+5 marks]*

(c) Evaluate **one or more** sustainable strategies designed to improve life in urban areas.   *[10 marks]*

14. The diagram shows two contrasting city systems.

Linear System

Circular System

Key:

City

Flows

[Source: adapted from www.dep.org.uk/scities/rationale/whylearn.php]

(a) Identify **two** possible additional inputs and **two** possible additional outputs for the linear system. *[4 marks]*

(b) Explain why the circular system has a reduced urban ecological footprint. *[6 marks]*

(c) Examine the dominant population movements and their consequences for **one or more** urban areas. *[10 marks]*