2011
HIGHER SCHOOL CERTIFICATE
EXAMINATION

Geography

Total marks – 100

(**Section I**) Pages 2–8

20 marks
• Attempt Questions 1–20
• Allow about 35 minutes for this section

(**Section II**) Pages 9–14

40 marks
• Attempt Questions 21–23
• Allow about 1 hour and 10 minutes for this section

(**Section III**) Page 15

40 marks
• Attempt TWO questions from Questions 24–26
• Allow about 1 hour and 15 minutes for this section

General Instructions
• Reading time – 5 minutes
• Working time – 3 hours
• Write using black or blue pen
  Black pen is preferred
• Board-approved calculators may
  be used
• A Stimulus Booklet is provided
  with this paper
• Write your Centre Number and
  Student Number at the top of
  pages 9, 11, and 13

Section I

20 marks
Attempt Questions 1–20
Allow about 35 minutes for this section
Refer to the Stimulus Booklet

Use the multiple-choice answer sheet for Questions 1–20.

1   Which of the following is an example of ecologically sustainable development?

   (A)   Clear felling of Tasmania's old growth forests

   (B)   Trawling of long nets off the Great Barrier Reef

   (C)   Preservation of species by banning human access to habitat

   (D)   Conservation of national park resources for recreational use

2   Which of the following best describes the movement of company offices from major urban areas to regional centres?

   (A)   Urban decay

   (B)   Exurbanisation

   (C)   Decentralisation

   (D)   Counterurbanisation

3   What is the best use of Geographic Information Systems (GIS)?

   (A)   Interpreting census data

   (B)   Identifying population trends

   (C)   Analysing and interpreting surveys

   (D)   Processing and analysing data spatially

Refer to the table below to answer Questions 4–5.

City (Country)	Approximate metropolitan population, 2008	Country GDP, 2010 (US Dollars)
Bangkok (Thailand)	7 221 000	586.9 billion
Delhi (India)	18 680 000	4.06 trillion
Hà Nội (Vietnam)	3 678 000	276.6 billion
Lagos (Nigeria)	13 488 000	377.9 billion
Mexico City (Mexico)	20 450 000	1.56 trillion
Tokyo (Japan)	32 450 000	4.3 trillion

4   Which of the following are megacities in the developing world?

(A)   Lagos and Hà Nội

(B)   Hà Nội and Bangkok

(C)   Mexico City and Delhi

(D)   Tokyo and Mexico City

5   Which of the following lists countries in the developing world in ascending order of GDP?

(A)   Vietnam, India, Nigeria

(B)   India, Thailand, Vietnam

(C)   Nigeria, Mexico, India

(D)   Thailand, Mexico, Japan

Refer to Source A to answer Questions 6–10.

6 What is the direction from Metropolitan Hospital (GR 638997) to Fire Boat Station (AR 6498)?

(A) SSE

(B) NNE

(C) NNW

(D) SSW

7 What is the bearing of Frederick Douglass Circle (AR 6201) from the lighthouse at AR 6499 near Mill Rock Park?

(A) 37°

(B) 143°

(C) 322°

(D) 328°

8 What is the approximate length of East River Drive from Fire Boat Station (AR 6498) to Recreation Pier (AR 6400)?

(A) 1.2 km

(B) 1.6 km

(C) 2.2 km

(D) 2.4 km

9 What is the approximate area of Jacqueline Onassis Reservoir, located in Central Park?

(A) 0.15 km^2

(B) 0.35 km^2

(C) 0.75 km^2

(D) 0.95 km^2

10   How long would it take a person walking at 4 km/h to walk from the Post Office (GR 629987) to the southern corner of 116th Street and Third Avenue?

(A)   31 mins

(B)   37 mins

(C)   53 mins

(D)   60 mins

11   A new estate within a suburban area of a city is gated and surrounded by a large wall.

What is this an example of?

(A)   Urban village

(B)   Consolidation

(C)   Suburbanisation

(D)   Spatial exclusion

12   Which type of map best shows ownership of land?

(A)   Précis

(B)   Cadastral

(C)   Chloropleth

(D)   Topographic

Refer to Source B to answer Questions 13–15.

13   In what direction does the Dà River flow between Thanh Thuỷ (B5) and Hòa Bình (B6)?

(A)   North

(B)   North West

(C)   South

(D)   South East

14   What is the latitude and longitude of Hot Mineral Spring Kim Bôi (C6)?

(A)   20°42'N 105°31'E

(B)   21°18'N 105°29'E

(C)   105°31'E 20°42'N

(D)   105°31'E 21°18'N

15 Which of the following best represents a cross-section from the Mường Village (B6) to the Hot Mineral Spring Kim Bôi (C6)?

(A) Metres

(B) Metres

(C) Metres

(D) Metres
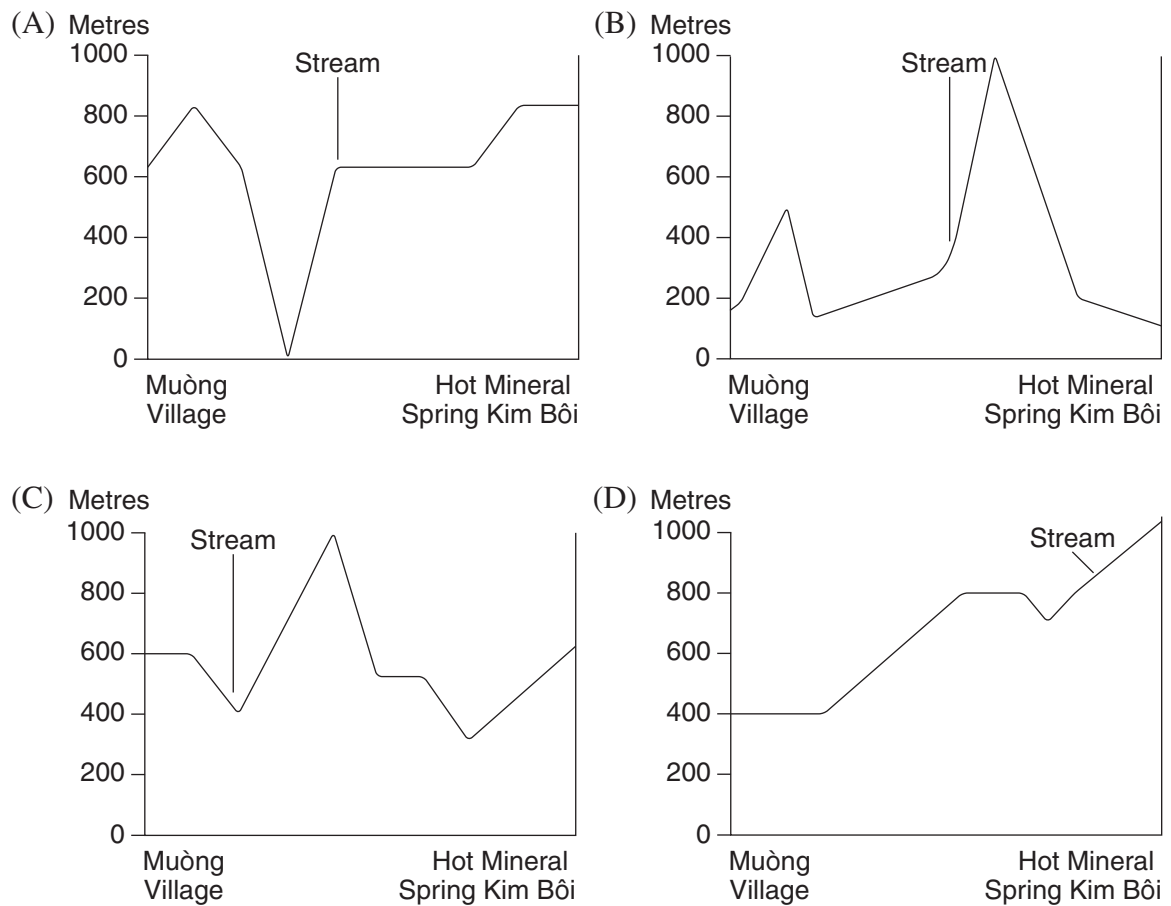
Refer to Source G to answer Question 16.

16 What are the most likely reasons for forest reduction between 1943 and 1990?

    (A) Population growth and logging

    (B) Flooding and population growth

    (C) City expansion and air pollution

    (D) Conservation and selective logging

Refer to Source L to answer Questions 17–18.

17 Which age bands have the greatest proportion of population in the United States and Vietnam?

(A) United States 35–39   Vietnam 20–24

(B) United States 45–49   Vietnam 20–24

(C) United States 45–49   Vietnam 15–20

(D) United States 50–54   Vietnam 25–29

18 Why is Vietnam most likely to have a higher population growth rate than the United States in the decade from 2010 to 2020?

(A) There is a high mortality rate in the United States.

(B) There is a declining number of births in the United States.

(C) The total birth rate in Vietnam has increased in the last decade.

(D) There is a larger proportion of population of women aged 15–30 years in Vietnam.

Please turn over

Refer to the ternary graph to answer Questions 19–20.

Percentage of Population by Ethnicity – selected cities in New York State (2005)
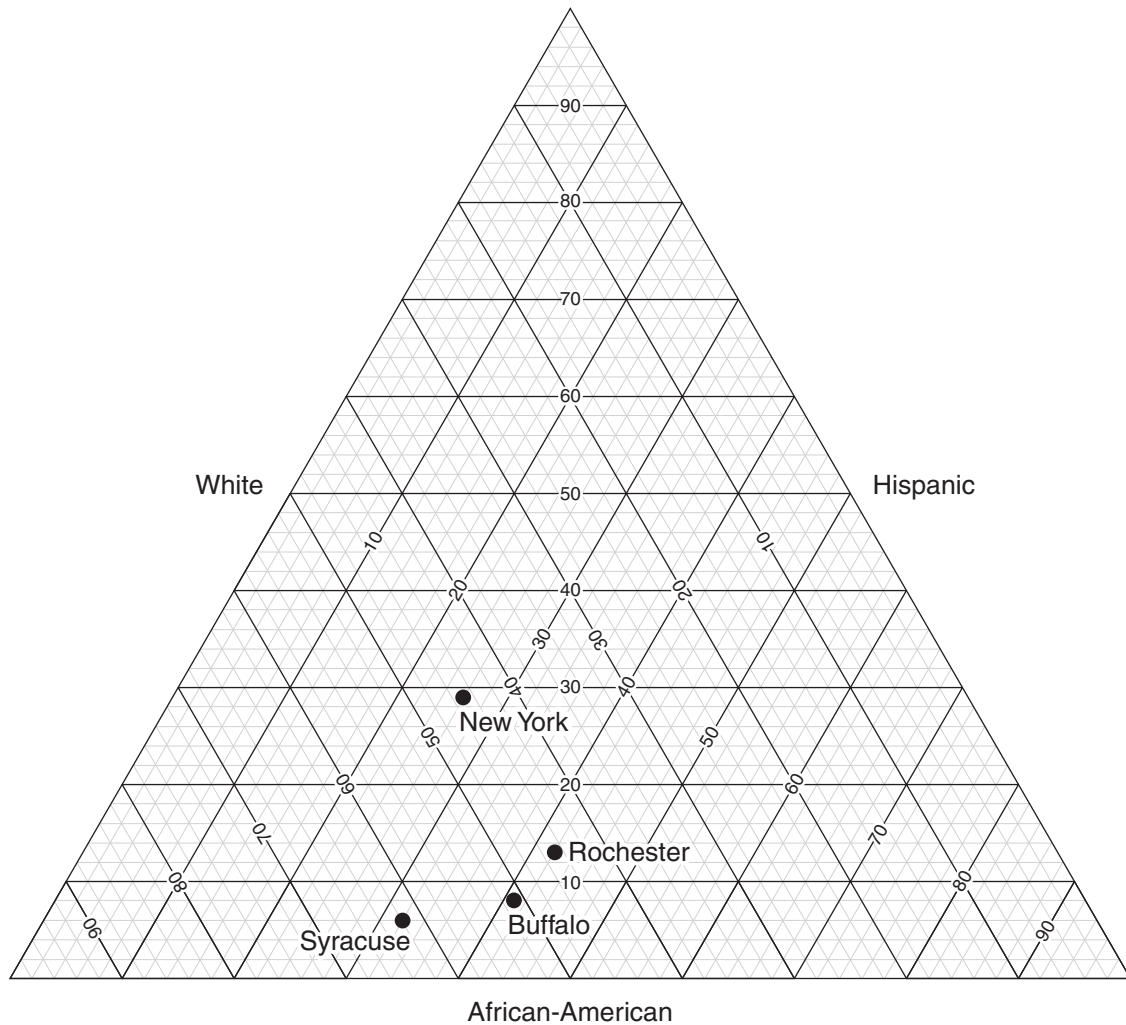
Source: US Census Bureau

19   What percentage of people living in Buffalo in 2005 were Hispanic?

(A)   8%

(B)   13%

(C)   41%

(D)   51%

20   In which city was the population 42% African-American, 13% Hispanic and 45% White?

(A)   Buffalo

(B)   Syracuse

(C)   Rochester

(D)   New York

Geography

Centre Number

Student Number

Section II

40 marks
Attempt Questions 21–23
Allow about 1 hour and 10 minutes for this section

Use the Stimulus Booklet and your knowledge of geography to answer Questions 21–23 in the spaces provided. These spaces provide guidance for the expected length of response.

Question 21 (12 marks)

(a) Recommend ONE primary and ONE secondary geographical method that could be used to assist in the management of an ecosystem at risk that you have studied. **4**

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(b) Describe the effect of ONE natural and ONE human-induced change on an ecosystem at risk that you have studied. **4**

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Question 21 (continued)

(c) How could Cûc Phuong National Park be managed to respond to human-induced changes which place the ecosystem at risk? In your answer, refer to the Sources on pages 2 and 3 of the Stimulus Booklet.   **4**

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End of Question 21

Geography

Centre Number

Student Number

Section II (continued)

Question 22 (14 marks)

(a) What makes New York City a world city?   **3**

In your answer, refer to Sources H, I, J and K from the Stimulus Booklet.

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(b) How might the culture of place in a large city be influenced by large numbers of   **5**
tourists?

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Question 22 (continued)

(c) How do population growth and associated urban sprawl affect the provision of   **6**
     both social services and infrastructure? Refer to a large city you have studied.

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End of Question 22

Geography

Centre Number

Student Number

Section II (continued)

Question 23 (14 marks)

(a) Explain how the changing use of technology has influenced an economic activity you have studied.

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Question 23 (continued)

(b) 'Local economic enterprises can no longer operate in isolation. Linkages and flows change significantly over time.'

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Discuss this statement in relation to a local economic enterprise you have studied.

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End of Question 23

– 14 –

Geography

Section III

40 marks
Attempt TWO questions from Questions 24–26
Allow about 1 hour and 15 minutes for this section

Answer each question in a SEPARATE writing booklet. Extra writing booklets are available.

In your answers you will be assessed on how well you:

■ demonstrate geographical knowledge and understanding relevant to the question

■ communicate ideas and information using geographical terms and concepts appropriately

■ refer to case studies, illustrative examples and the Stimulus Booklet where appropriate

■ present a sustained, logical and cohesive response

Question 24 (20 marks)

Discuss the factors that place ecosystems at risk. In your answer, refer to BOTH an ecosystem you have studied AND the ecosystem presented on pages 2 and 3 of the Stimulus Booklet.

Question 25 (20 marks)

Analyse the role of world cities in the operation of global networks.

Question 26 (20 marks)

Explain the spatial patterns and the possible future directions of an economic activity you have studied.

End of paper

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Source A – Central Park and Surrounds (New York)

Key

- Lighthouse
- Ferry
- Post Office
- H Hospital

N

Scale 1 cm = 150 m

0   300   600   900   1200 m

Source: © MapsofWorld

Awaiting copyright

Source C – Soil compaction and erosion at Cûc Phuong National Park

Source E – Rubbish at Cûc Phuong National Park

Awaiting copyright

Source F – Traditional Mường home in Cûc Phuong National Park

Awaiting copyright

Source H – New York City from the Empire State Building

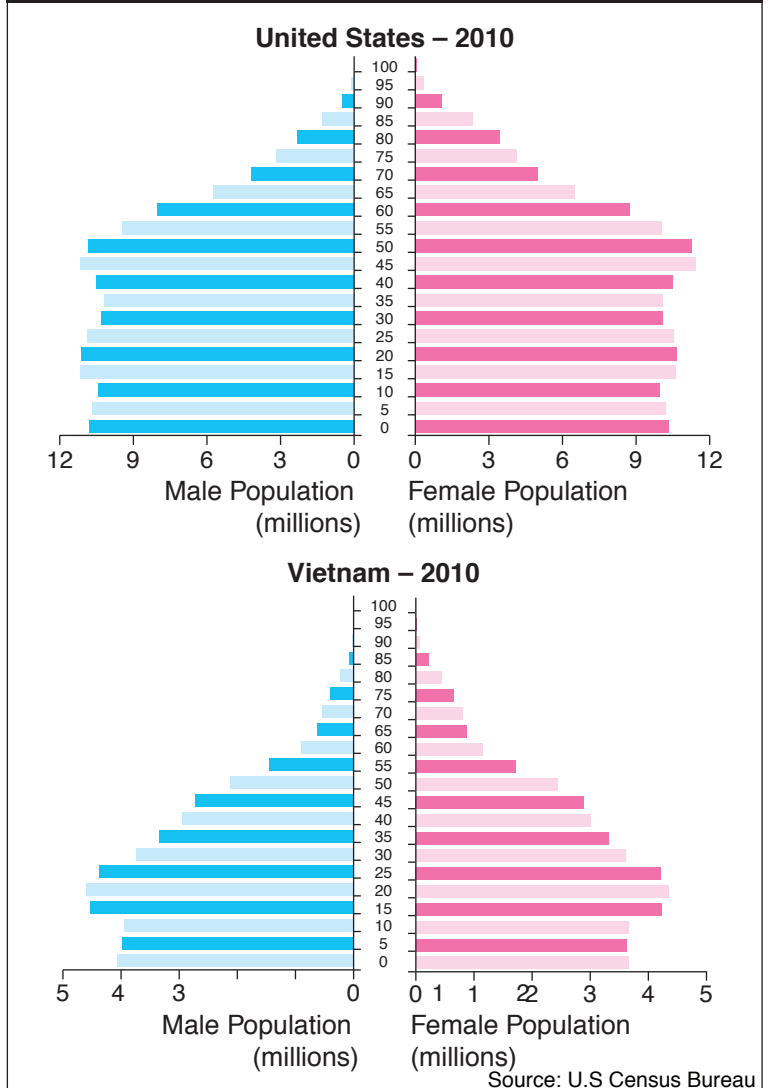Source J – New York City from Brooklyn

Source I – Times Square

Awaiting copyright

Source L – Population Pyramids

United States – 2010

12 9 6 3 0   0 3 6 9 12
Male Population   Female Population
(millions)   (millions)

Vietnam – 2010

5 4 3 0   0 1 1 22 3 4 5
Male Population   Female Population
(millions)   (millions)

Source: U.S Census Bureau