

VICTORIA JUNIOR COLLEGE PRELIMINARY EXAMINATION

GEOGRAPHY Higher 1

8812/01

Wednesday 14th September 2016
3 hours

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READ THESE INSTRUCTIONS FIRST

Write your name and class on all answer sheets that you hand in.
Write in dark blue or black pen on both sides of the paper.
You may use a soft pencil for any diagrams, graphs or rough working.
Do not use staples, paper clips, highlighters, glue or correction fluid.

Section A

Answer **four** questions.

Section B

Answer **one** question.

Section C

Answer **one** question.

You are advised not to spend more than one hour 30 minutes on Section A.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.
The number of marks is given in brackets [] at the end of each question or part question.

You are reminded of the need for good English and clear presentation in your answers.
At the end of the examination, fasten all your work securely together.

Section A

Answer **four** questions from this section.

Lithospheric Processes, Hazards and Management

1. Photograph A shows a limestone cave system in Kentucky, USA.
 - a) Draw a labelled sketch to identify the main features of the cave system in Photograph A. [3]
 - b) Explain the role of climate and geology in influencing the development of the cave system in Photograph A. [6]
 - c) Describe how the cave system in Photograph A may change over time. [3]

Globalisation of Economic Activity

2. Fig. 1A shows the top 20 economies for foreign direct investment (FDI) outflows in 2014. Fig. 1B shows the top 20 economies for foreign direct investment (FDI) inflows in 2014.
 - a) Account for the pattern of FDI outflows shown in Fig. 1A. [3]
 - b) Explain how Figs. 1A and 1B illustrate the global shift. [4]
 - c) Describe the challenges that newly industrialised economies may face in achieving economic development. [5]

Hydrologic Processes, Hazards and Management

3 EITHER

Fig. 2 shows the some characteristics of the River Thalweg in Wales.

- a) Describe the long profile of the River Thalweg in Fig. 2. [3]
- b) With reference to Fig. 2, describe the change in the dominant particle size deposited with distance downstream. [1]
- c) Account for your answer in (b). [4]
- d) With reference to Fig. 2, account for the presence of meanders and braided channels between Sites B and C. [4]

Urban Issues and Challenges

3 OR

Fig. 3 shows the pattern of gentrification and displacement in low income tracts and moderate to high income tracts in San Francisco, USA. Table 1 shows the number of tracts for each gentrification and displacement category in San Francisco, USA.

- a) With reference to Fig. 3 and Table 1, describe the pattern of gentrification and displacement in San Francisco's low income and moderate to high income tracts. [3]
- b) With reference to Table 1, explain the factors that may increase the risk of displacement of low income households in an area. [5]
- c) Describe the problems that may be associated with advanced gentrification and advanced exclusion in an urban area. [4]

Lithospheric and Hydrologic Processes, Hazards and Management

4 EITHER

Fig. 4 shows the distribution of rock types in Singapore.

- a) With reference to Fig. 4, describe the distribution of rock types in Singapore. [3]
- b) Describe the differences between sedimentary rocks and igneous rocks. [4]
- c) Explain how geology can influence surface and sub-surface stores. [4]
- d) Suggest and explain **one** other factor that can influence the nature of stores. [3]

Globalisation of Economic Activity and Urban Issues and Challenges

4 OR

Table 2 shows the top 25 cities on the Global Cities Index. The Global Cities Index examines a city's current performance based on five dimensions – business activity, human capital, information exchange, cultural experience and political engagement.

Table 3 shows the top 25 cities on the Global Cities Outlook. The Global Cities Outlook is a projection of a city's future potential based on four dimensions – rate of change in personal well-being, economy, innovation and governance.

- a) With reference to Table 2, describe the distribution of the top 25 cities on the Global Cities Index. [4]
- b) Explain why the top 25 cities on the Global Cities Index may be attractive to businesses. [6]
- c) Suggest possible reasons to account for the lower rankings of Tokyo and Paris on the Global Cities Outlook in Table 3 compared to their rankings on the Global Cities Index in Table 2. [4]

Section B

Answer one question.

All questions carry 25 marks.

Lithospheric Processes, Hazards and Management

5 EITHER

- a) Explain the factors affecting weathering. [9]
- b) To what extent are the landforms associated with convergent and divergent plate margins different? [16]

5 OR

- a) Describe and explain block disintegration and granular disintegration. [9]
- b) 'The impacts of mass movements are hazardous'. Discuss. [16]

Hydrologic Processes, Hazards and Management

6 EITHER

- a) Distinguish the conditions for Hortonian Overland Flow and Saturation Overland Flow. [9]
- b) Discuss how conflicts of interests may arise between different users within a drainage basin. [16]

6 OR

- a) Explain how floods may be a seasonal occurrence. [9]
- b) 'The impacts of floods will vary within a drainage basin'. Discuss. [16]

Section C

Answer one question.

All questions carry 25 marks.

Globalisation of Economic Activity

7 EITHER

- a) Account for deindustrialisation in developed countries and describe its impacts. [9]
- b) To what extent have states been effective in facilitating economic development? [16]

7 OR

- a) Explain the factors that have contributed to the internationalisation of the service sector. [9]
- b) 'The development gap still exists at all scales'. Do you agree with this statement? [16]

Urban Issues and Challenges

8 EITHER

- a) Describe the characteristics of sub-standard housing in urban areas in developed (DCs) and less developed countries (LDCs). [9]
- b) Analyse the impacts of decentralisation in developed countries (DCs). [16]

8 OR

- a) Explain the Bid Rent theory and briefly discuss its limitations. [9]
- b) Do you agree that it is easier to solve transport problems in urban areas in developed countries (DCs) than in less developed countries (LDCs)? [16]