



SERANGOON JUNIOR COLLEGE
JC2 PRELIMINARY EXAMINATION 2017
Higher 2

GEOGRAPHY

9751/02

Paper 2 Data Response Questions

Wednesday
13 Sept 2017
3 hours

Additional materials: Answer Paper
1 Insert
World Outline Map

READ THESE INSTRUCTIONS FIRST

Write your name and civics group on all the work 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, highlighter, glue or correction fluid.

Candidates answer **all** questions.

The Insert contains all the Resources referred to in the question paper.
You should make reference to appropriate examples studied in the field or the classroom, even where such examples are not superficially requested by the question.
Diagrams and sketch maps should be drawn whenever they serve to illustrate an answer.
The world outline map may be annotated and handed in with relevant answers.
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.
The number of marks is given in brackets [] at the end of each question or part question.

Section A

Theme 4 : Geographical Investigation

- 1 A group of students were tasked to undertake a fieldwork exercise along the Johor River in Kota Tinggi (Malaysia) to ascertain the perception of flood risk and preparedness in selected residential areas.

In preparation for the fieldwork investigation, the students accessed flood hazard maps and flood risk maps prepared by the Institute of Geospatial Science and Technology (Universiti Teknologi Malaysia).

The students decided to do a questionnaire survey, administered via face-to-face interviews. The questionnaire included questions on: awareness, risk perception, previous exposure to flooding and the extent to which people engaged or plan to engage in preparedness activities. They were given two days in June 2017 at each site to complete their surveys.

Resource 1 shows a map of Kota Tinggi (Malaysia). Resource 2 shows the flood hazard map and flood risk map of Kota Tinggi. Resource 3 is a sample of the questionnaire survey prepared by the students.

- (a) Using Resources 1 and 2, establish **three** criteria for selecting sites for fieldwork investigation. [4]
- (b) During the pilot test for the questionnaire survey, the group of students concluded that they needed to improve their survey questions. Suggest how the survey questions in Resource 3 can be further improved. [6]
- (c) Outline **two** potential hazards during the fieldwork activities and provide ways to mitigate these hazards. [5]
- (d) Suggest how the results from the flood risk perception survey can aid urban planning in Kota Tinggi. [3]
- (e) Explain the strength(s) and limitation(s) of using a flood risk perception survey to ascertain flood risk. [7]

Section B**Theme 1 : Tropical Environments****Arid Environments in the African continent**

- 2** Deserts are regions characterised by unique atmospheric and geomorphological processes.

Resource 4 shows the mean monthly temperature and precipitation values for Berbera, Somalia. Resource 5 illustrates the main sand seas/ergs of the Sahara and Sahel today. Resource 6 shows a type of desert landform found in the Sahara.

- (a)** With reference to Resource 4, describe the climatic characteristics of a desert. [4]
- (b)** Using information from Resource 4, outline the factors promoting the transport of sediment by wind in deserts. [4]
- (c)** Explain why the distribution and extent of sand seas/ergs, as shown in Resource 5, was likely to be different during the early Holocene. [5]
- (d)** Using diagrams, explain how the desert landform reflected in Resource 6 may have formed. [5]
- (e)** Examine the extent to which desert landforms, such as those shown in Resource 6, are due to the processes of wind action only. [7]

Theme 2 : Development, Economy and Environment

Spatial organisation of Transnational Corporations

- 3** Resource 7 shows the intra-firm and inter-firm networks of a TNC (transnational corporation). Resource 8 illustrates the spatial distribution of the global value chain. Value chain refers to the entire sequence of productive or value-added activities from the conception of a product to its manufacturing and commercialisation. Resource 9 reflects the share of manufacturing value chain income of developed countries and Asian Newly Industrialised Economies between 1995 and 2011. Resource 10 is a photograph of protesters gathered outside Wal-Mart's offices in Gurgaon, India. They are demanding that Wal-Mart build its stores far from markets where they work.
- (a)** With reference to Resource 7, describe the roles of HQ (headquarters) in a TNC [3]
(transnational corporation).
 - (b)** International sub-contracting is one of the inter-firm networks established by a TNC. [4]
Outline **two** advantages and **two** disadvantages for TNCs engaging in international subcontracting.
 - (c)** Using Resource 8 and your own knowledge, suggest **three** locational requirements [3]
for R&D (research and development) activities.
 - (d)** Citing information from Resource 8, suggest reasons for the trends observed in [7]
Resource 9.
 - (e)** Use Resource 10 and your own knowledge to support the view that the global reach [8]
of TNCs is **not** limitless.

Theme 3 : Sustainable Development

Slums in Makoko, Lagos (Nigeria)

- 4 Lagos, Nigeria is the largest city in Africa, with an estimated 11.2 million people in 2011 (United Nations). The city has been dubbed the “mega-city of slums”, with 66% of the population residing in slums.

Makoko is one of the slums in Nigeria. A third of the community is built on stilts along the Lagos lagoon and the rest is on land.

Resource 11 shows the location of Makoko Slum, Lagos (Nigeria). Resource 12 features photographs of Makoko Slum. Resource 13 outlines selected figures from surveys conducted in Makoko Slum, highlighting public health status in Makoko. Resource 14 is the proposed masterplan of the Makoko Waterfront Regeneration project. The Makoko Waterfront Regeneration project is a slum upgrading project initiated by the local community, in collaboration with the Social and Economic Rights Action Center (SERAC) and Urban Spaces Innovation (USI). The project was intended to be an alternative to widespread eviction. Professionals from diverse background in land, housing, environment, urban development, social and economic empowerment and development finance, worked closely with different sections of the Makoko community to come up with this master plan.

- (a) Using Resources 11 and 12, suggest reasons for the location of the Makoko Slum [5]
in Lagos, Nigeria.
- (b) Account for Makoko’s maternal mortality rate as reflected in Resource 13. Use [6]
information from any of the Resources and your own knowledge to support your
answer.
- (c) Citing from Resources 12 and 13, suggest how climate change is likely to affect the [5]
lives of urban dwellers in Makoto Slum.
- (d) “Slum upgrading is a more humane and long-term housing solution for slum [9]
dwellers.” Using information from Resource 14 and your own knowledge, assess
the validity of the statement.

End of Paper

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