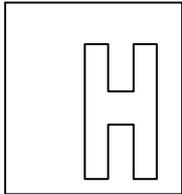


Class

Adm No

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Candidate Name: _____



2017 Promotional Examination II Pre-University 2

GEOGRAPHY (HIGHER 1)**8813****12 September 2017****3 hours**

Additional Materials: Answer Paper
 1 Insert
 World outline map

READ THESE INSTRUCTIONS FIRST

Write your name, admission number and class 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, highlighters, glue or correction fluid.

Answer **four** questions in total.

Section A

Answer Question 1.

Section B

Answer Question 2.

Section C

Answer **two** questions, each from a different theme.

The Insert contains all the Resources referred to in the questions.
You should make reference to appropriate examples studied in the field or the classroom, even where such examples are not specifically requested by the question.
Diagrams and sketch maps should be drawn whenever they serve to illustrate an answer.
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.

This document consists of 4 printed pages and 1 Insert.

[Turn over

Section A

Theme 3: Geographical Investigation

- 1 A group of Geography students are interested to investigate the effectiveness of recent state-led efforts to improve urban liveability in Singapore. They selected the neighbourhoods of Kallang and Punggol for their investigation. Kallang is an inner city neighbourhood while Punggol is a planned new town.

The group of students were allocated three days for field investigation. They have access to secondary data detailing the range of implemented stage-led efforts to improve liveability in Kallang and Punggol extracted from the URA Master Plan (2013). Resource 1 details the recent state-led efforts to improve urban liveability in Kallang. Resource 2 details the recent state-led efforts to improve urban liveability in Punggol. Resource 3 shows the survey questionnaire results that the students have collected from the neighbourhood of Kallang.

- (a) Suggest a suitable research question for the students' investigation with reference to Resources 1 and 2, and state **three** reasons why the research question is at a suitable scale. [4]
- (b) Explain possible risks that the students might have to confront when conducting the research investigation and suggest ways to mitigate them. [4]
- (c) Recommend and explain other data collection methods to supplement the findings as shown in Resource 3. [6]
- (d) Select a suitable data representation method and sketch resident's perception of the environmental impacts of recent state-led efforts to improve urban liveability using information as shown in Resource 3. [3]
- (e) Evaluate the usefulness of the investigation in understanding the impacts of recent state-led efforts to improve urban liveability in Singapore. [8]

Section B**Theme 1: Climate and Climate Change****Tropical Cyclone Enawo in Madagascar**

- 2** Resource 4 shows the spatial and temporal distribution of tropical cyclones in the world. Resource 5 shows information on Tropical Cyclone Enawo that hit Madagascar in March 2017. Resource 6 shows the flooding situation in Antananarivo, Madagascar on 10 March 2017 as a result of Tropical Cyclone Enowa.

Note: A tropical depression has wind speed of below 63 kilometres per hour, a tropical storm has wind speed of 63 to 118 kilometres per hour while a tropical cyclone has wind speed above 118 kilometres per hour.

- (a)** Describe the spatial and temporal distribution of tropical cyclones from 1851 to 2006 as shown in Resource 4. [4]
- (b)** With reference to Resources 4 and 5, explain the development of Tropical Cyclone Enawo at Madagascar in March 2017. [6]
- (c)** With reference to Resource 5, describe the distribution of impacts at Madagascar due to Tropical Cyclone Enowa. [5]
- (d)** Using Resources 5 and 6, explain how hydrological processes could have been affected by Tropical Cyclone Enowa which resulted in river floods in Antananarivo, Madagascar. [6]
- (e)** Explain **two** impacts caused by the floods due to Tropical Cyclone Enowa in Antananarivo, Madagascar as shown in Resources 5 and 6. [4]

Section C

Answer **two** questions from this section. **Either** Question 3 **or** Question 4 and **Either** Question 5 **or** Question 6

Theme 1: Climate Change and Flooding

- 3 (a) Explain the climate characteristics of regions experiencing Tropical Monsoon (Am) climate. [9]
- (b) To what extent does monsoon winds influence the rainfall patterns in the tropics? [16]
- 4 (a) Explain why hydrological processes may differ in the humid and arid tropics. [9]
- (b) Evaluate the extent to which natural factors influence the occurrence of floods. [16]

Theme 2: Urban Change

- 5 (a) Explain the reasons for the development of slums in cities with low levels of development. [9]
- (b) Evaluate the success of slum improvement strategies in cities. [16]
- 6 (a) Explain the sources of either crowding **or** fear in cities in countries at high levels of development. [9]
- (b) Assess the success of strategies used to cater for the different needs of social groups in cities. [16]

- End of Paper -

Copyright Acknowledgements:

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|---------------------------|---|
| Question 1 Resource 1 & 2 | http://www.fendylee.com/master-plan-2013/archives/11-2013/3 (Last accessed: 21 August 2013) |
| Question 1 Resource 3 | Millennia Institute |
| Question 2 Resource 4 | http://www.geocoops.com/tropical-storms.html |
| Question 2 Resource 5 | http://www.gdacs.org/datareport/dailymap/TC/1000341/20170310_Madagascar_TC_ENAWO.pdf (Last accessed: 10 August 2017) |
| Question 2 Resource 6 | https://maps.mapaction.org/dataset/5338c40f-3446-4aaf-abb9-07eb7ec3eddb/resource/8e9478ba-7958-43df-a259-5e006f2d8cad/download/ma003antananarivofloods10032017-300dpi.pdf (Last accessed: 10 August 2017) |