



JURONG JUNIOR COLLEGE
JC2 GEOGRAPHY
PRELIMINARY EXAMINATION 2017

GEOGRAPHY

8813

Higher 1

Paper 1

Tuesday 29 August 2017

3 hours

Name: _____

Class: _____

INSTRUCTIONS TO CANDIDATES

Write in dark blue or black pen.

You may use a soft pencil for any diagrams, graphs or rough working.

Do not use 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.

At the end of the examination, please attach your answers to the cover page provided.

The number of marks is given in brackets [] at the end of each question or part question.

Section A

Theme 3: Geographical Investigation

- 1** A group of 24, eighteen year old students from Jurong Junior College in Singapore wanted to examine liveability in Taman Jurong neighbourhood. They had access to selected demographic data of the residents in Taman Jurong.

The students also wanted to investigate the residents' satisfaction in relation to the amenities in the neighbourhood. They wanted to investigate the various areas that could enhance the urban liveability of the neighbourhood for the residents. They were allocated three days for field investigations at the end of November.

Resource 1 shows selected demographic data of the residents in Taman Jurong. Resource 2 shows survey results of Taman Jurong residents' general satisfaction levels of the neighbourhood amenities. Resource 3 shows survey results by locals and foreigners on the common meeting spaces with their neighbours.

- (a)** With reference to Resources 1 and 2, outline why there might be contrast in urban liveability standards amongst the Taman Jurong residents. [4]
- (b)** Explain how the students could have conducted an investigation to gather the data presented in Resource 3. [7]
- (c)** Assess the usefulness and limitations of the data collection and representation methods used in Resource 3. [6]
- (d)** Using Resource 2, explain the limitations of the data technique of using surveys to measure urban liveability. [5]
- (e)** Suggest another form of data representation method to showcase the information in Resource 2. [3]

Section B
Theme 1: Climate Change and Flooding

Climatic Zones in the Tropics and Climate Change

2. Resource 4 shows the climograph of Kolkata, India (22°N). Resource 5 shows the climograph of Cairo, Egypt (29°N). Resource 6 shows the El Nino climate impacts in December-February and June-August.
- (a) With reference to Resources 4 and 5, contrast the climate characteristics of Kolkata, India and Cairo, Egypt. [6]
- (b) Explain the differences described in (a). [7]
- (c) With reference to Resource 6, describe **two** differences between the El Nino climate impacts in December-February and June-August. [4]
- (d) With the help of Resource 6, describe how El Nino affects the climate characteristics of Kolkata, India and suggest the possible impacts of such changes on Kolkata. [8]

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 conditions necessary for the development of a tropical cyclone. [9]
- (b) To what extent do humans and human activities contribute to the devastating impacts of tropical cyclones? [16]

4

- (a) Explain how the different components of a storm hydrograph help us in understanding the flows of water in a river. [9]
- (b) “Climatic factors play the most important role in influencing the hydrological processes within a drainage basin”.
Discuss the validity of this statement. [16]

Theme 2: Urban Change

5

- (a) Explain the reasons for the development of slums in developing countries. [9]
- (b) Assess the success of the strategies used to improve the conditions of slum dwellers in developing countries. [16]

6

- (a) Outline the problems associated with transport in urban areas in developed countries. [9]
- (b) Discuss the extent to which strategies used to manage transport problems in urban areas in developed countries have been successful. [16]



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INSERT 1

This Insert contains all the Resources referred to in the questions.

This document consists of **5** printed pages and **1** blank page

Resource 1 for Question 1

Selected demographic data of the residents in Taman Jurong

Household Monthly Income (Singapore Dollars)			Education Level		
\$2999 and below	149	37.3 %	None	14	3.5 %
\$3000 – \$3999	39	9.8 %	Primary	65	16.4 %
\$4000 – \$4999	28	7.0 %	Secondary	130	32.7 %
\$5000 – \$5999	30	7.5 %	ITE	32	8.1 %
\$6000 – \$6999	21	5.3 %	Junior College	21	5.3 %
\$7000 – \$7999	16	4.0 %	University	92	23.2 %
\$8000 and above	35	8.8 %	Others	43	10.8 %
Missing	82	20.5 %	Total	397	100.0 %
Total	400	100.0 %			

Type of Residence		
HDB public housing	360	90 %
Condominium	24	6 %
Landed property	16	4 %
Total	400	100 %

Resource 2 for Question 1

Survey results of Taman Jurong residents' general satisfaction levels of the neighbourhood amenities.

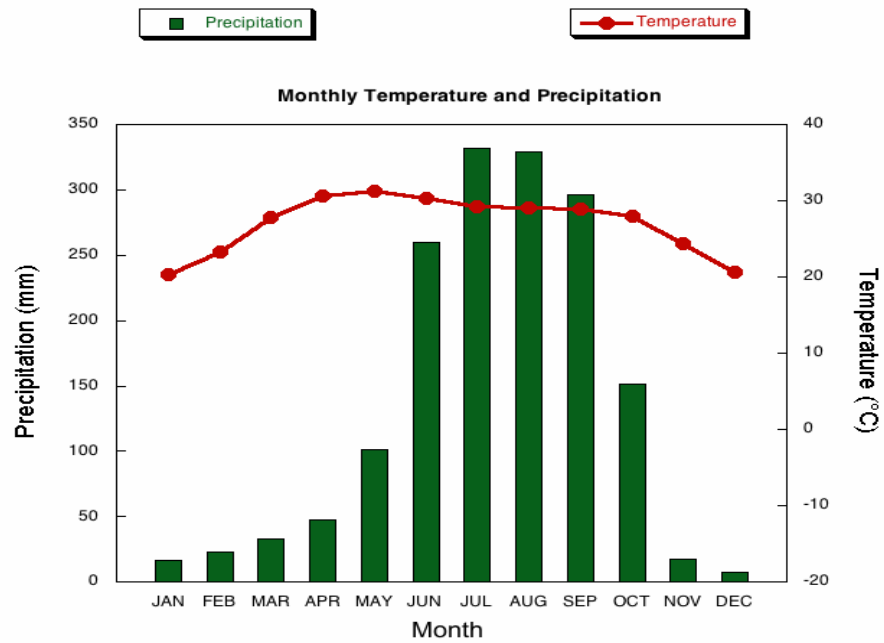
General Satisfaction with Amenities and Infrastructure	Agree (Percent)
1 There are provision shops/wet market(s) in my neighbourhood	92.3 %
2 There is good access to green space in this neighbourhood	87.1 %
3 There are enough play areas for children in this neighbourhood	77.5 %
4 The footpaths in this neighbourhood are adequate (reverse coded)	77.1 %
5 There is affordable public transport service to and from this neighbourhood	76.9 %
6 This neighbourhood is becoming quite an expensive place to live	65.6 %
7 There are adequate sports and exercise facilities in this neighbourhood (reverse coded)	63.4 %
8 There are affordable educational facilities near my neighbourhood	62.8 %

Resource 3 for Question 1

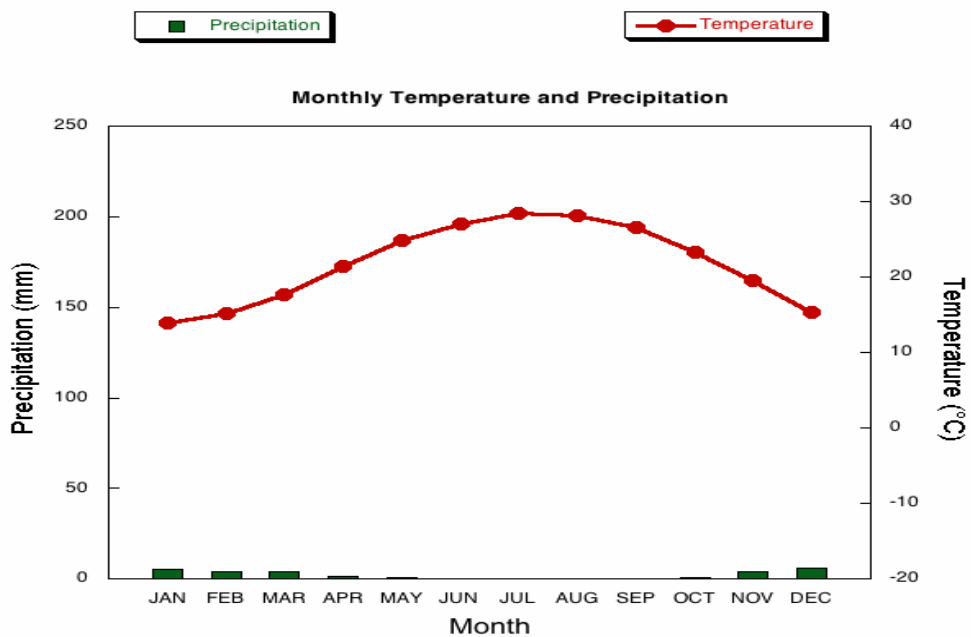
Survey results by locals and foreigners on the common meeting spaces with their neighbours



Resource 4 for Question 2
Climograph of Kolkata, India

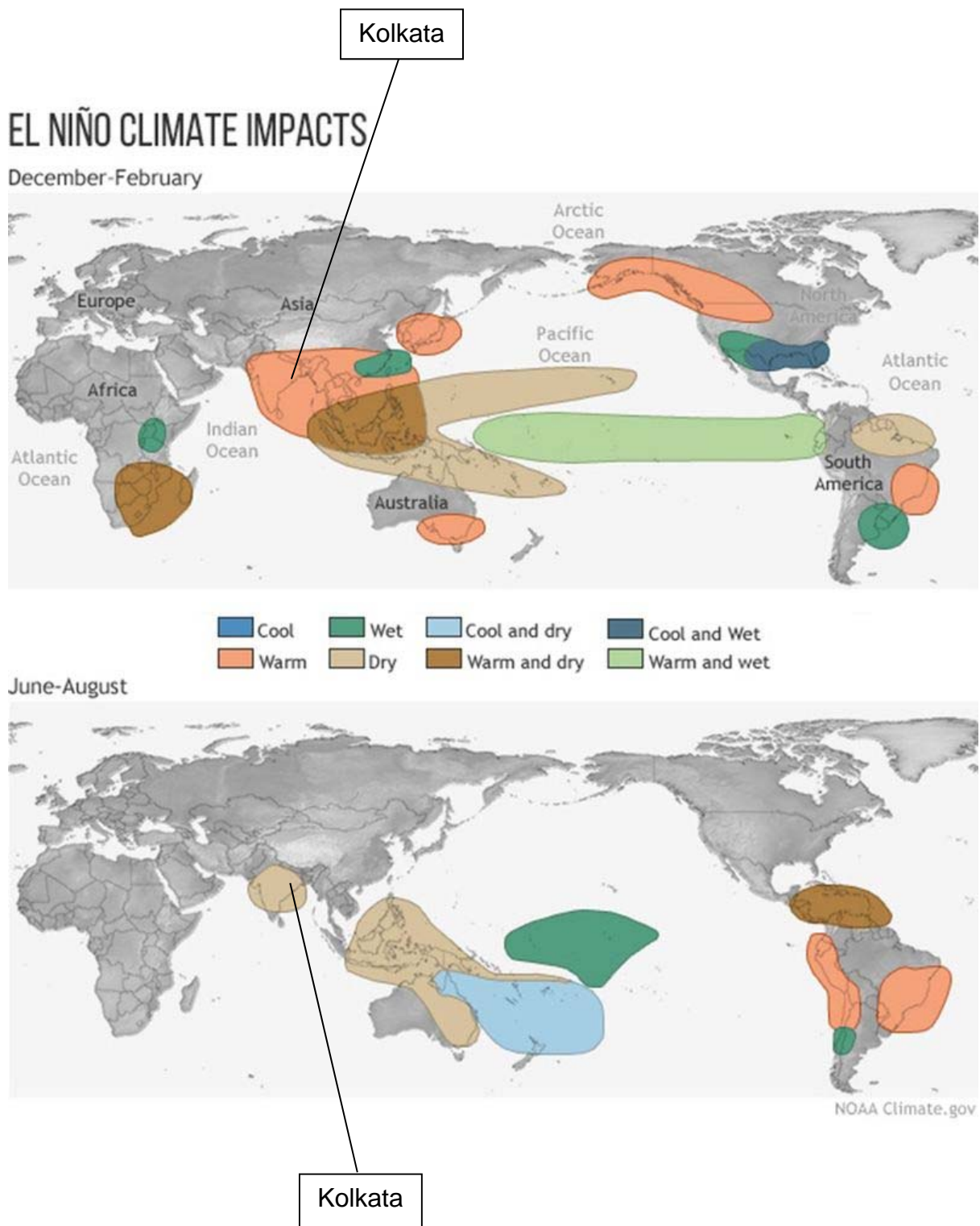


Resource 5 for Question 2
Climograph of Cairo, Egypt



Resource 6 for Question 2

El Nino impacts in December-February and June-August



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