YISHUN JUNIOR COLLEGE
JC 2 PRELIMINARY EXAMINATION 2017

H1 GEOGRAPHY   **8813/01**
Paper 1

QUESTION PAPER

Additional materials: Answer Paper
                        1 Insert
                        World outline map

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READ THESE INSTRUCTIONS FIRST

Start each question on a fresh piece of paper.
Write your name and CTG on all the work you hand in.
Write in dark blue or black pen on both sides of the paper.
You may use a pencil for any diagrams or graphs.
Do not use staples, paperclips, 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.
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.

The number of marks is given in brackets [ ] at the end of each question or part question.
At the end of the examination, fasten all your work securely together in the correct order.

This question paper consists of **4** printed pages

Section A

Theme 3: Geographical Investigation

1   A group of 24 18 year-old students from Sutherland, in the southern part of Sydney, Australia wanted to examine liveability in different parts of Sydney. They selected the neighbourhoods of Cabramatta and Penrith for their investigation. They had access to census information about the birthplace of the residents, the houses they stay in, their level of education and the monthly income.

The students wanted to gain further information on sports facilities, cultural opportunities, public transport and the quality of roads to gain a fuller picture of liveability. They were allocated three days for field investigation at the beginning, in the middle and at the end of November.

Resource 1 shows the railway network of Sydney. Resource 2 shows residential density in the Greater Sydney area in 2005 and the birthplace and dwelling type of residents in Cabramatta and Penrith in 2011. Resource 3 shows levels of education and income of residents in Cabramatta and Penrith in 2011.

(a)   With reference to Resource 1, outline why there might be contrasts in liveability between Penrith and Cabramatta. [2]

(b)   Suggest a suitable research question for the students' investigation with reference to Resource 2, and state **three** reasons why the research question is at a suitable scale. [4]

(c)   Explain how Resources 1 and 2 can help the students understand liveability in Penrith and Cabramatta. [6]

(d)   Suggest a plan for the students to investigate the quality of public transport. [7]

(e)   For Penrith, sketch one pie chart to represent education levels and one histogram to represent income levels using the information in Resource 3. [6]

Section B

Theme 1: Climate Change and Flooding

Climate Change in South East Asia

2   Resources 4 and 5 show changes in annual average temperature and annual average rainfall over parts of Asia-Pacific region respectively between 1968 and 2006. Resource 6 shows predicted percentage change in flood risk in Indonesia between 2030 and 2100. Resource 7 shows the relationship between carbon dioxide in the atmosphere and human emissions of carbon dioxide from 1880 and 2010.

   (a)   Describe the changes in temperature and rainfall shown in Resources 4 and 5 respectively.
   [6]

   (b)   Explain how the changes shown in Resources 4 and 5 could affect human activities.
   [5]

   (c)   Suggest three reasons for the rainfall changes shown in Resource 5.
   [3]

   (d)   Apart from rainfall, suggest **three** reasons why flood risk may change in Indonesia as shown in Resource 6.   [3]

   (e)   With reference to Resource 7, and your own knowledge, evaluate the extent to which climate change is caused by anthropogenic activities.
   [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 strategies used to manage floods in countries at varying levels of development.
[9]

(b) To what extent do human activities influence the occurrence of floods? [16]

4 **(a)** Account for the rainfall patterns associated with the humid tropical climates. [9]

(b) To what extent is the weakening of the Walker Circulation the most significant factor in affecting climates in the tropics? [16]

Theme 2: Urban Change

5 **(a)** Explain how sustainable urban development may be measured and monitored in countries of varying levels of development. [9]

(b) 'Slums are the greatest impediment confronting cities in achieving sustainable urban development'.

How far do you agree with this statement? [16]

6 **(a)** Explain the various strategies that cities can employ to reimage itself. [9]

(b) Evaluate the effectiveness of strategies in catering to the needs of the disabled in the city. [16]

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Paper 1

25 August 2017
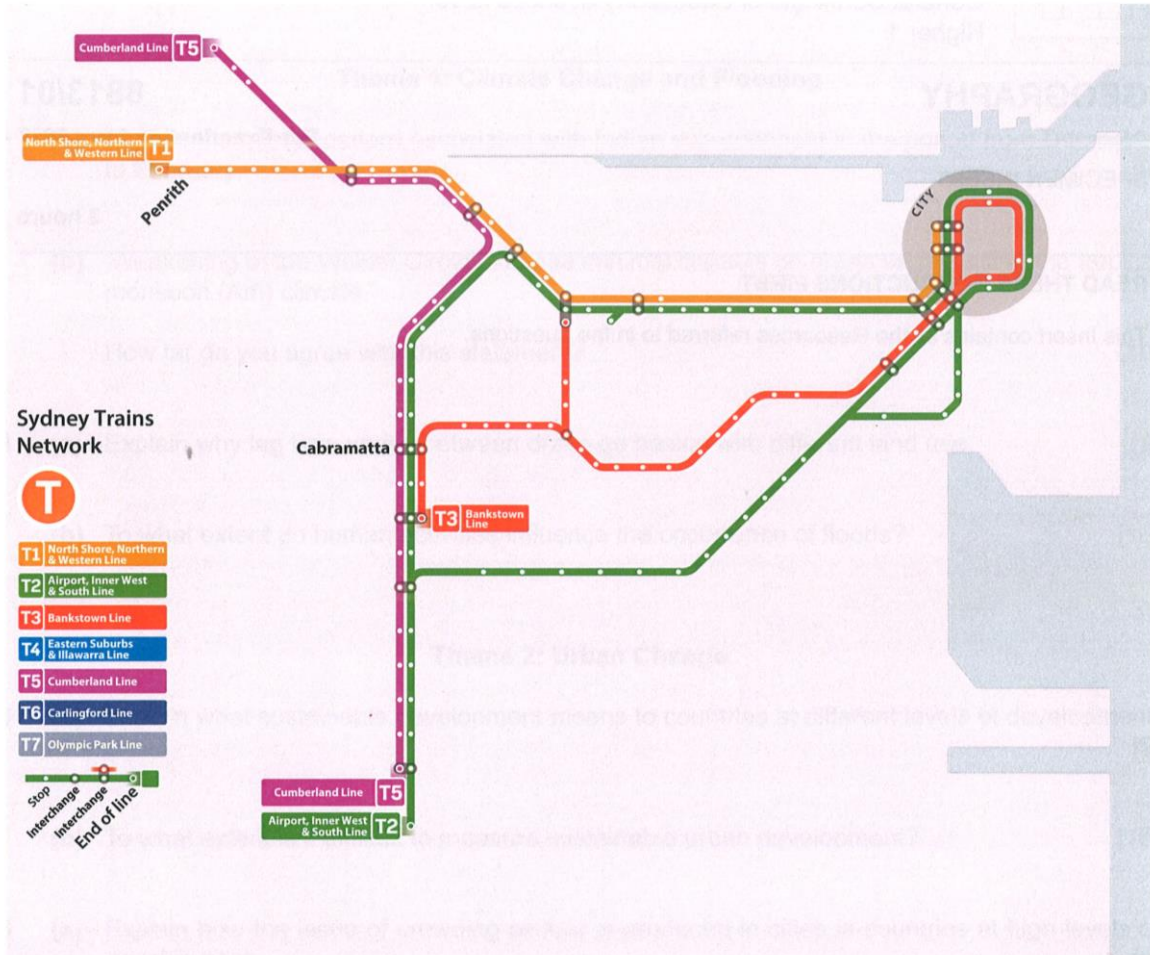INSERT   **3 hours**

READ THESE INSTRUCTIONS FIRST

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

Resource 1 for Question 1

The railway network of Sydney

[Turn over

Resource 2 for Question 1

Residential density in the Greater Sydney area in 2005 and the birthplace and dwelling type of residents in Cabramatta and Penrith in 2011
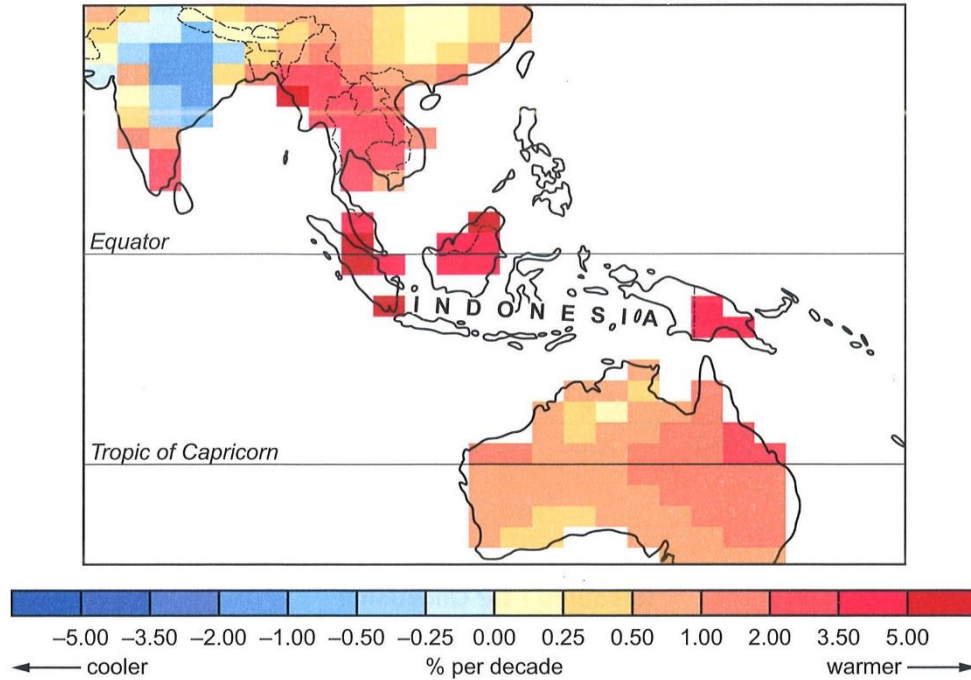

birthplace %		dwelling type %	
Australia	74.3	separate house	81.9
UK	04.7	semi detached/terrace	10.6
S E Asia	00.9	flat/apartment	07.2
Elsewhere	20.1	other	00.3

birthplace %		dwelling type %	
Australia	29.4	separate house	39.9
UK	00.4	semi detached/terrace	20.9
S E Asia	47.6	flat/apartment	39.2
Elsewhere	22.6	other	

Key

residential density
(dwellings per hectare)

- > 25
- 9.01–25
- < 9
- national parks and open spaces
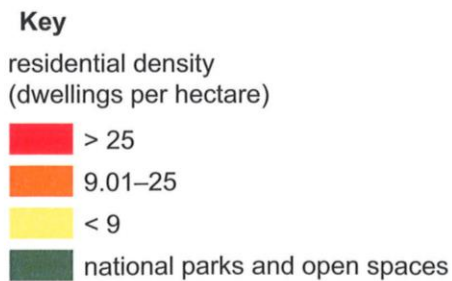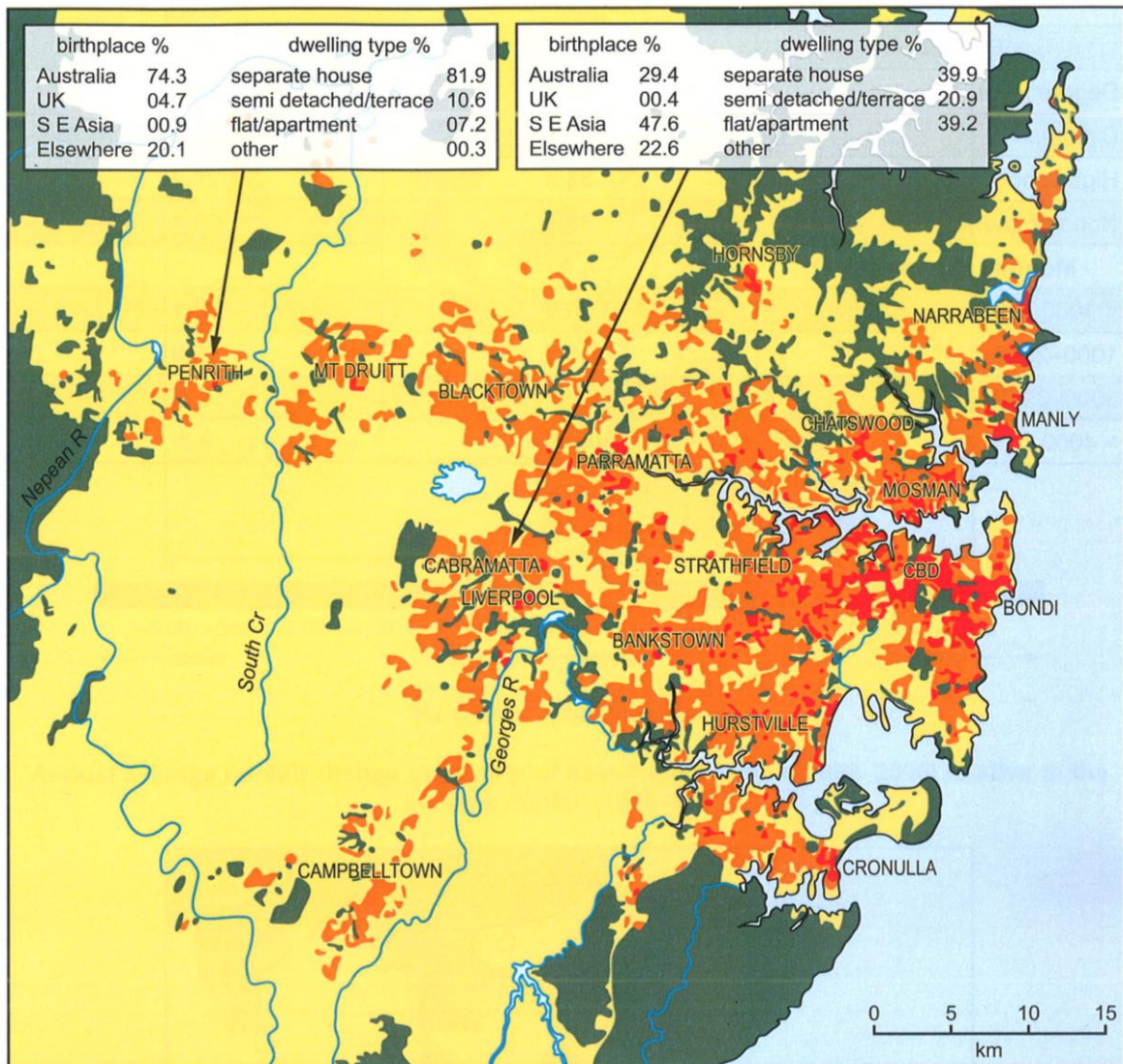
Resource 3 for Question 1

Education and income level of residents in Cabramatta and Penrith in 2011

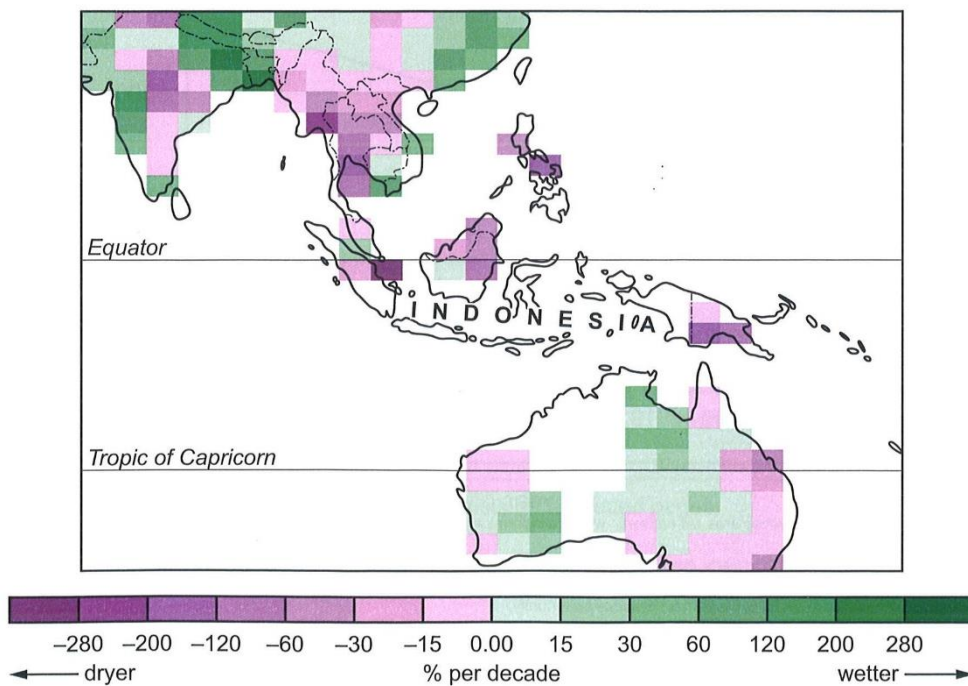|	Cabramatta %	Penrith %
Education		
Degree level	17.1	24.2
Diploma	11.4	16.2
High school	33.2	26.2
None or low	38.3	33.4
Monthly income (AU$)		
< 1000	60.9	28.1
1000–2999	36.5	59.9
3000–3999	1.9	8.8
> 4000	0.7	3.2

Resource 4 for Question 2

Annual average temperature change over parts of Asia-Pacific region (1968-2006) relative to the average temperature (1960-1990)



```
−5.00  −3.50  −2.00  −1.00  −0.50  −0.25  0.00  0.25  0.50  1.00  2.00  3.50  5.00
◄──── cooler                          % per decade                    warmer ────►
```

Resource 5 for Question 2

Annual average rainfall change over parts of Asia-Pacific region (1968-2006) relative to the average rainfall (1960-1990)
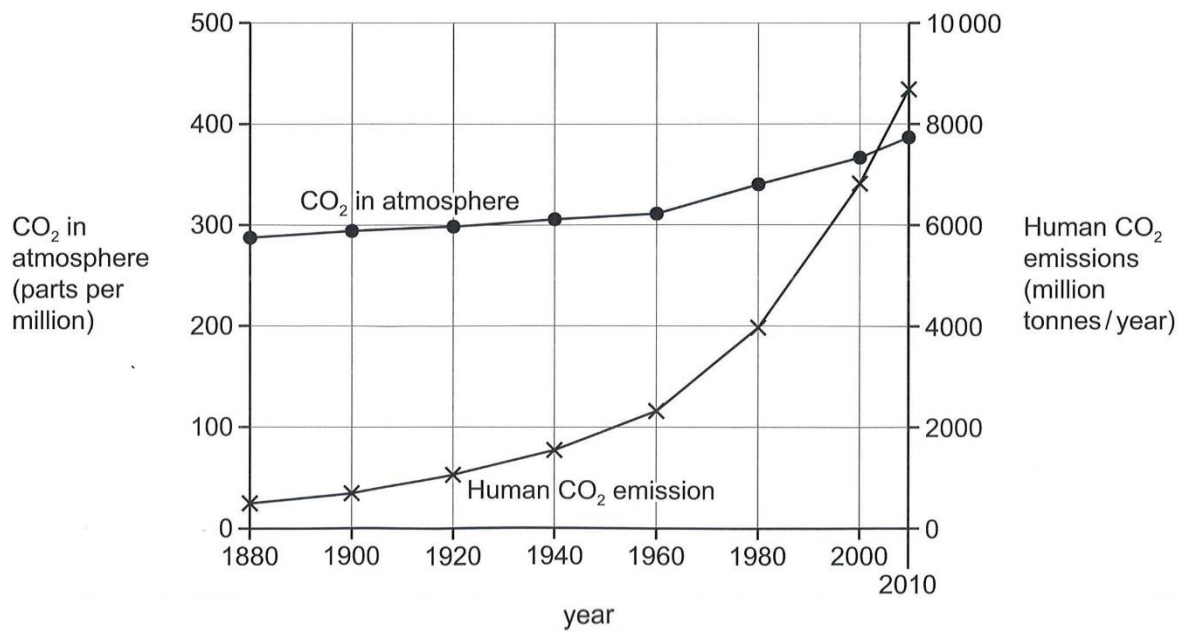


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−280  −200  −120  −60  −30  −15  0.00  15  30  60  120  200  280
◄──── dryer                      % per decade              wetter ────►
```

Resource 6 for Question 2

Predicted percentage change in flood risk in Indonesia 2030-2100 if current rainfall change trends continue
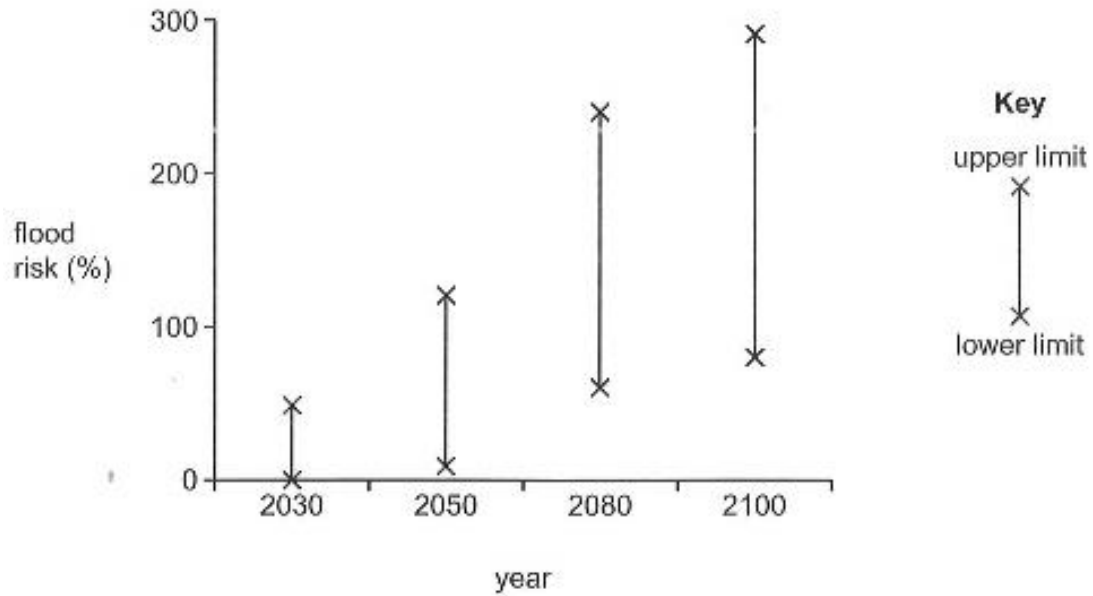
Resource 7 for Question 2

The relationship between carbon dioxide in the atmosphere and human emissions of carbon dioxide from 1880-2010

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