

GEOGRAPHY PAPER 2

11.45 am – 1.00 pm (1½ hours)

This paper must be answered in English

GENERAL INSTRUCTIONS

1. This paper consists of **TWO** sections:

Section D – consists of 4 data / skill-based structured questions. Choose **ONE** question **only** in this section, which must be in a different elective from that chosen in Section E.

Candidates attempting:

Question 1 in this section are NOT allowed to choose Question 5 in Section E.

Question 2 in this section are NOT allowed to choose Question 6 in Section E.

Question 3 in this section are NOT allowed to choose Question 7 in Section E.

Question 4 in this section are NOT allowed to choose Question 8 in Section E.

Section E – consists of 4 short essay questions. Choose **ONE** question **only** in this section, which must be in a different elective from that chosen in Section D.

Candidates attempting:

Question 5 in this section are NOT allowed to choose Question 1 in Section D.

Question 6 in this section are NOT allowed to choose Question 2 in Section D.

Question 7 in this section are NOT allowed to choose Question 3 in Section D.

Question 8 in this section are NOT allowed to choose Question 4 in Section D.

2. Answer a total of **TWO** questions.
3. Write your answers in the Answer Book. Start each question (not part of a question) on a new page.
4. Draw sketch maps and diagrams to supply additional, relevant information when appropriate.

Section D: Answer ONE question from this section, which must be in a different elective from that chosen in

Section E. Each question carries 18 marks.

1. **Elective: Dynamic Earth**

Candidates attempting this question are NOT allowed to choose Question 5 in Section E.

Figure 1a is a simplified geological map of Hong Kong Island, indicating the location and photograph of geological hazard X in June of a particular year. Figure 1b shows the site of geological hazard X in detail and the rainfall condition before the occurrence of the hazard. Figure 1c shows two mitigation measures for geological hazard X.

Figure 1a

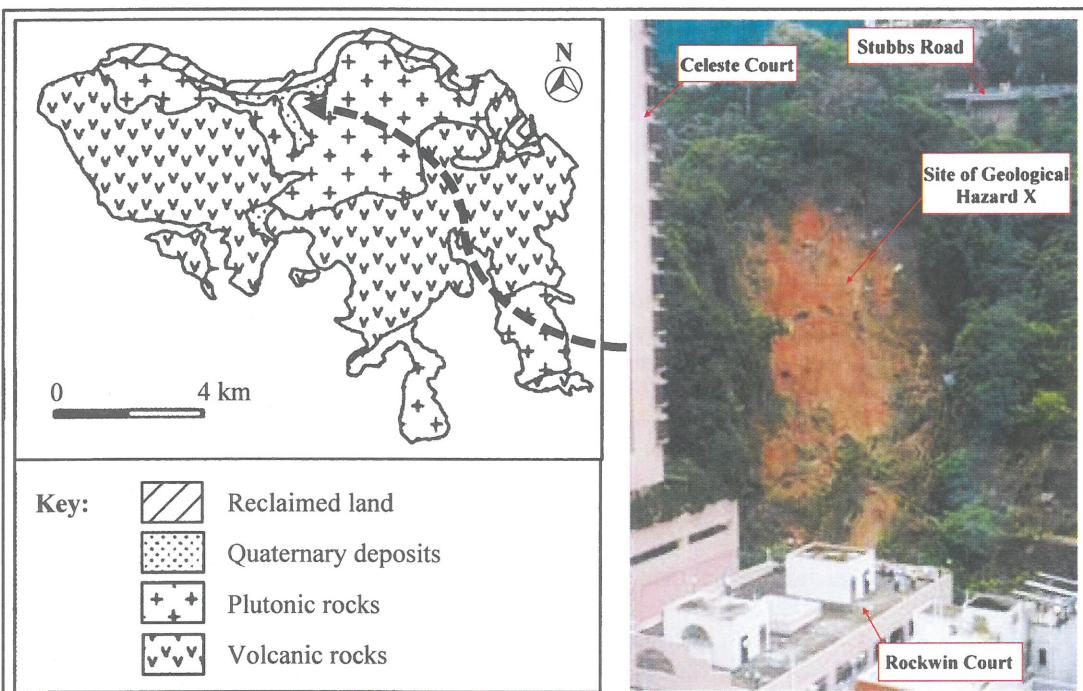


Figure 1b

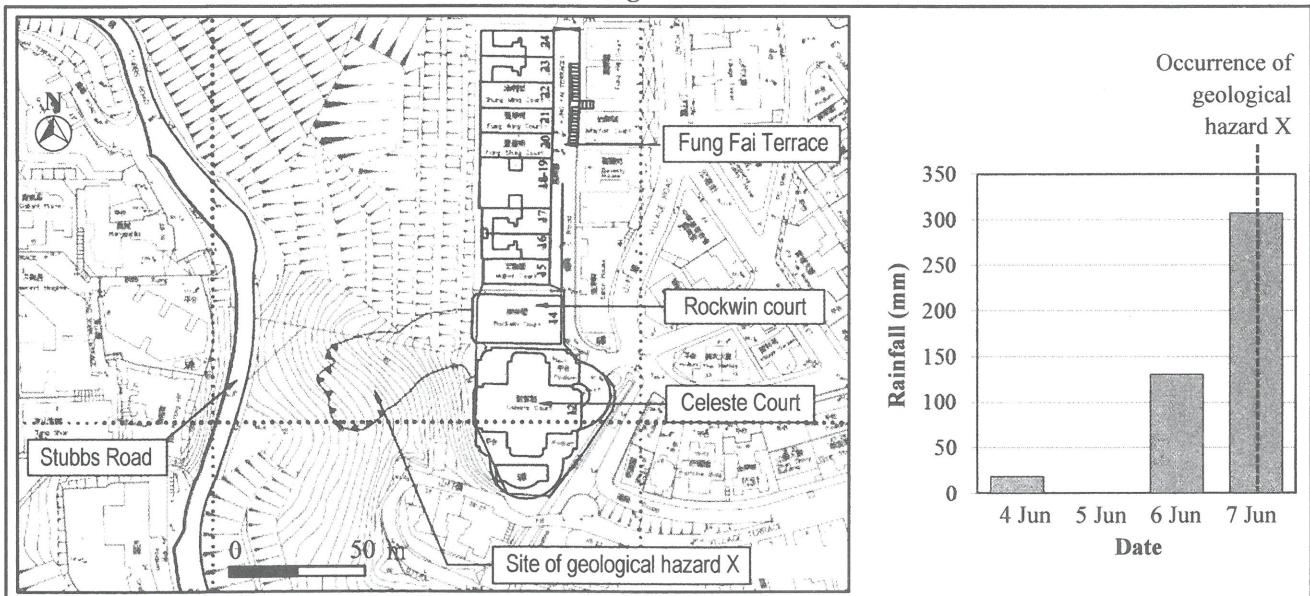
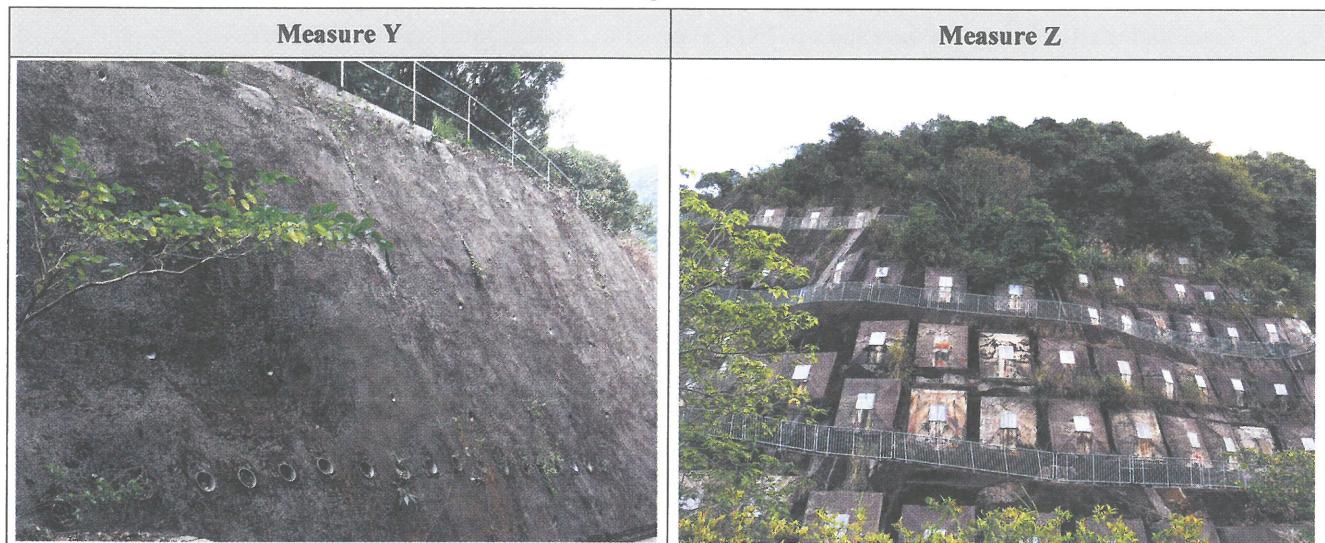


Figure 1c



(a) Refer to Figure 1a.

(i) Identify geological hazard X. (1 mark)

(ii) Explain how the characteristics of rock bring about the occurrence of geological hazard X. (5 marks)

(b) Refer to Figures 1a and 1b. Using evidence from the figures, account for the possible reasons that have caused an acceleration of the occurrence of geological hazard X. (4 marks)

(c) Refer to Figure 1c.

(i) Identify measures Y and Z. Explain how these measures may mitigate geological hazard X. (4 marks)

(ii) Discuss whether the measures mentioned in (c) (i) are suitable to be adopted at the site in Figure 1b . (4 marks)

2. Elective: Weather and Climate

Candidates attempting this question are NOT allowed to choose Question 6 in Section E.

Figure 2a shows the location of Hong Kong and city X. Table 2b shows the general temperature patterns of the two cities. Figure 2c shows the weather charts of Hong Kong on two consecutive days in February with seasonal weather system.

Figure 2a

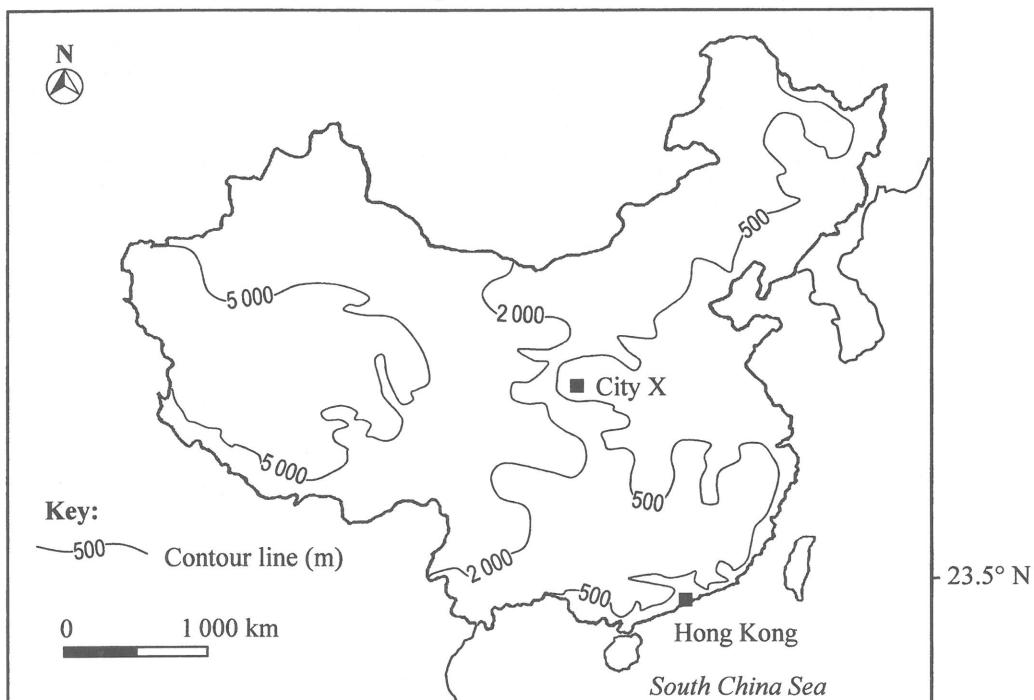


Table 2b

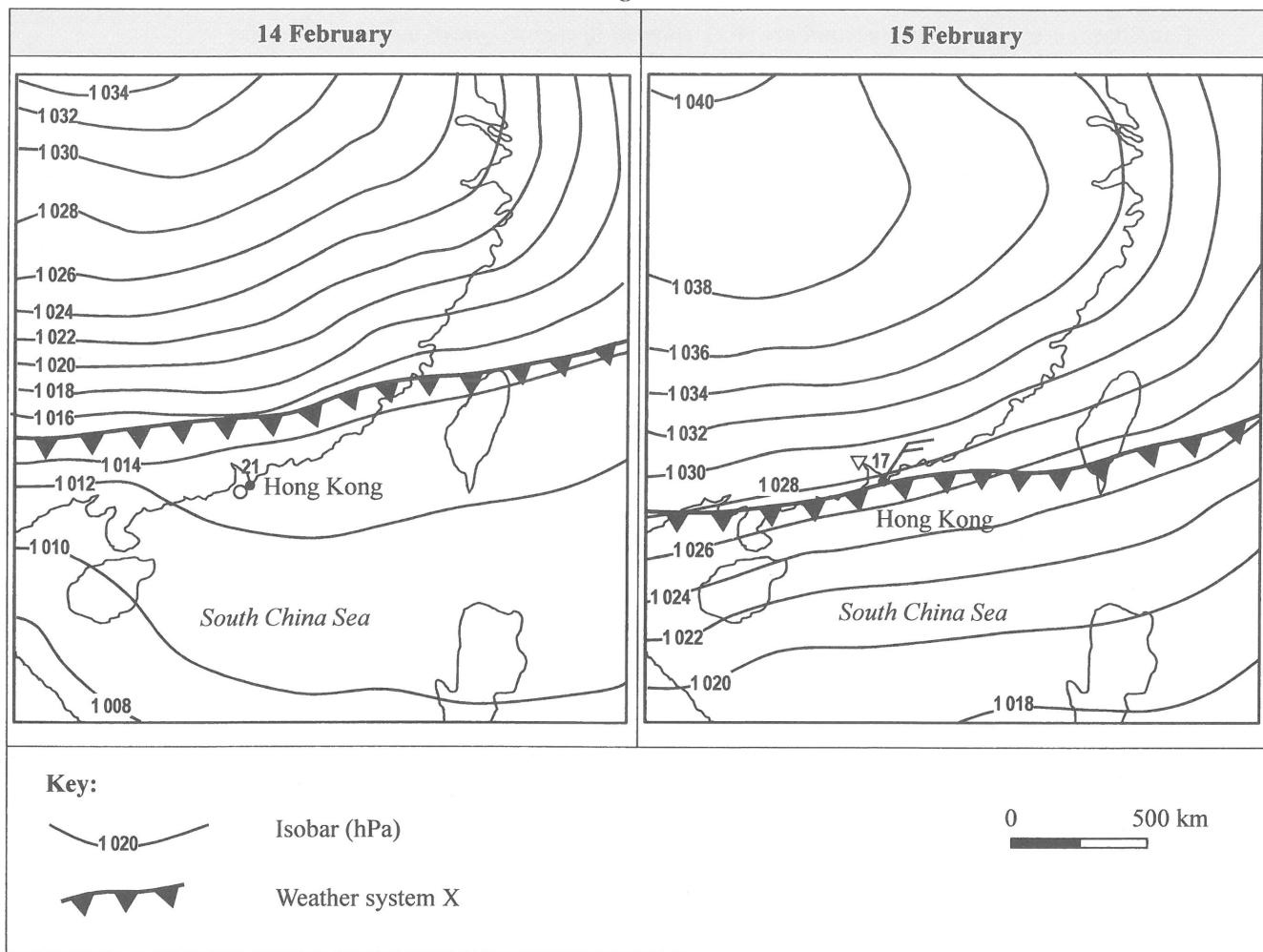
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Hong Kong (°C)	16.1	16.3	19.0	22.5	25.9	27.9	28.3	28.1	27.8	25.5	21.5	17.9
City X (°C)	-0.5	2.2	7.9	14.1	19.4	24.8	26.3	25.3	19.4	13.8	6.8	0.9

(a) Refer to Figure 2a and Table 2b.

(i) Compare the temperature patterns of Hong Kong and city X. (3 marks)

(ii) Explain the differences described in (a) (i). (5 marks)

Figure 2c



(b) Refer to Figure 2c.

- Name weather system X. (1 mark)
- Describe and explain the changes in weather conditions of Hong Kong between 14 and 15 February. (5 marks)
- Forecast the weather conditions of Hong Kong on 16 February. Give reasons to support your answer. (4 marks)

3. Elective: Transport

Candidates attempting this question are NOT allowed to choose Question 7 in Section E.

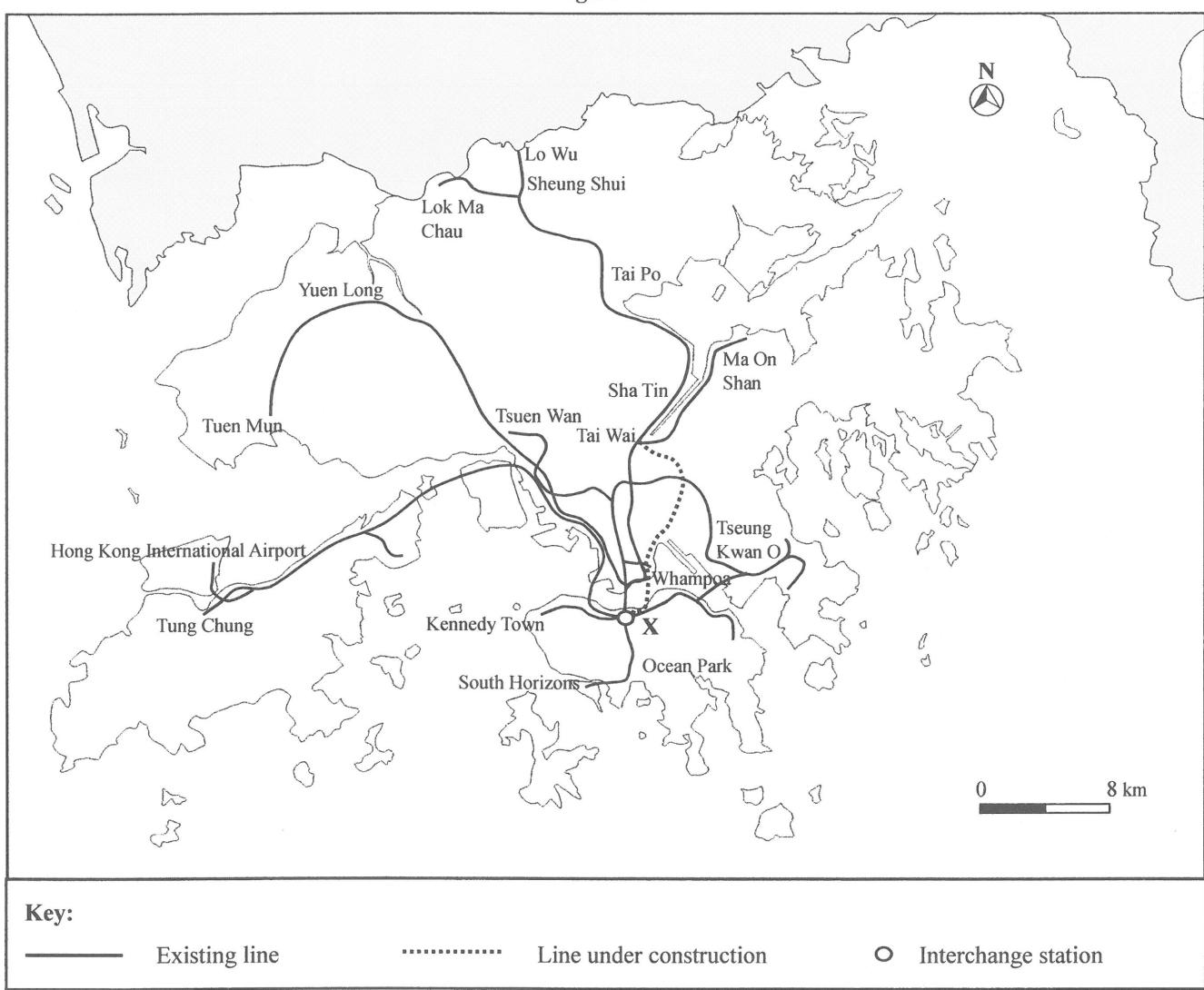
Table 3a shows the changes in percentage of public transport passengers from 1984 to 2014 in Hong Kong. Figure 3b shows the railway network of Hong Kong and the location of interchange station X.

Table 3a

	1984	1994	2004	2014
Franchised buses	46.4	33.9	36.9	31.3
Public light buses	16.1	17.1	15.5	15.0
Railways	15.9	30.2	32.5	40.1
Others	21.6	18.8	15.1	13.6

(Figures in %)

Figure 3b



- (a) Refer to Table 3a.

(i) Describe the changes in percentage of public transport passengers from 1984 to 2014 in Hong Kong. (2 marks)

(ii) Explain the changes in percentage of railway passengers. (3 marks)

(b) Refer to Figure 3b.

(i) Describe the distribution pattern of the existing railway network in Hong Kong. (3 marks)

(ii) According to the distribution pattern of railway network mentioned in (b) (i), what are the problems that may occur at interchange station X in the next few years? (3 marks)

(iii) Explain the causes of the problems mentioned in (b) (ii). (3 marks)

(c) Refer to Table 3a and Figure 3b.

Comment on whether Hong Kong should continue to adopt the transport strategy of ‘According Priority to Railways’. (4 marks)

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WE ARE
TWO OCEANS
apart

WE ARE
TWO OCEANS
apart.

Starving

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rivers

Self
interested

15-1

4. Elective: Regional Study of Zhujiang Delta

Candidates attempting this question are NOT allowed to choose Question 8 in Section E.

Figure 4a shows the water quality ranking of some rivers in the Zhujiang Delta Region in 2013 and some locations of facility X for improving the water quality. Table 4b shows data about the water quality of Zhaoqing and Dongguan in 2013. Photograph 4c shows facility X.

Figure 4a

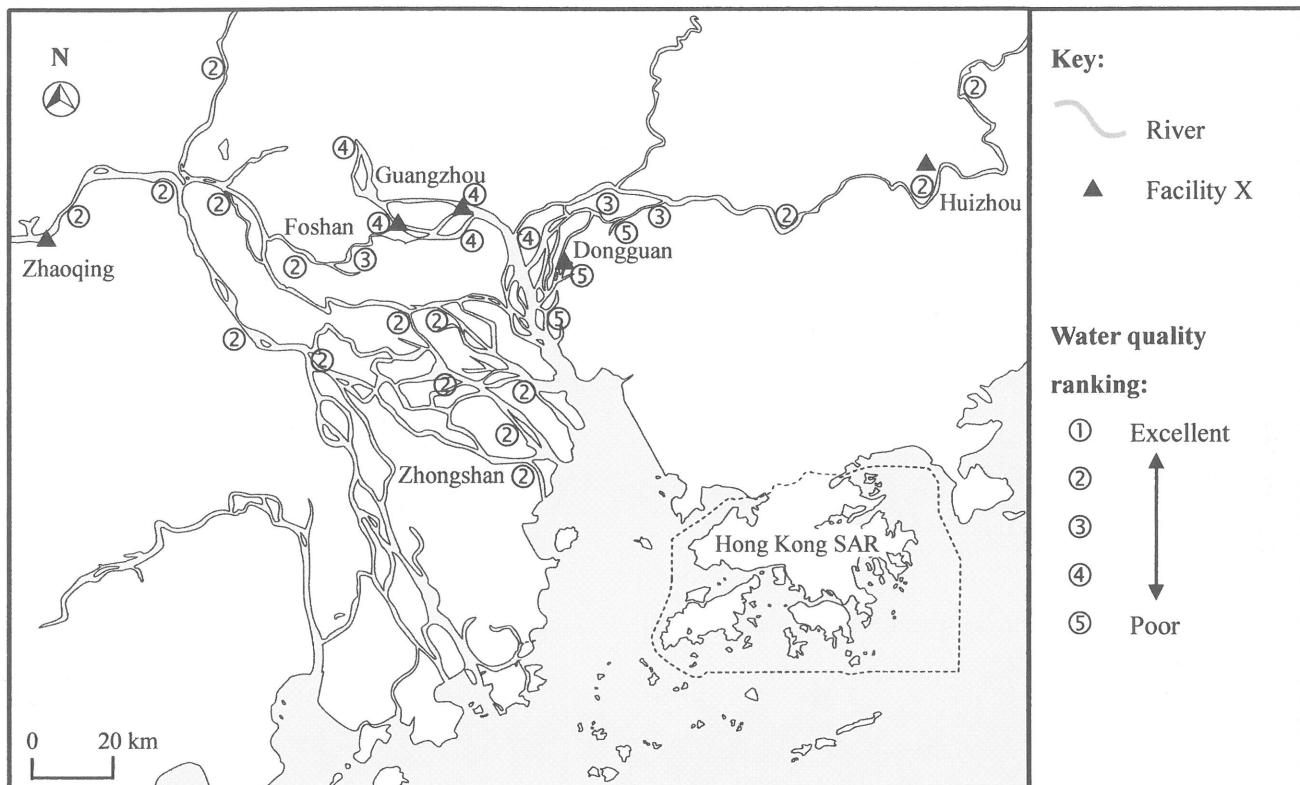


Table 4b

	Zhaoqing	Dongguan
Population	4 300 000	8 320 000
Water consumption amount (million m³)	930	2 008
Percentages of water consumption amount by different uses	Farming	79.0
	Industry	8.1
	Domestic	12.9
Amount of sewage discharged to collection pipelines (million tonnes)	227	1 029
Percentage of sewage treated by facility X	94.1	95.2
Percentage of untreated sewage	5.9	4.8
Amount of sewage entering rivers* (million tonnes)	302	1 232

* Including direct discharge, sewage after treatment by facility X and untreated sewage

Photograph 4c



- (a) Describe the distribution pattern of river water quality shown in Figure 4a. (2 marks)
- (b) Refer to Figure 4a and Table 4a. *↙*
- (i) Describe and explain the differences in river water quality between Zhaoqing and Dongguan. (5 marks)
- (ii) What are the socio-economic impact brought about by the river water quality mentioned above? (5 marks)
- (c) Refer to the information in Table 4b and facility X shown in Photograph 4c.
- (i) How can facility X improve river water quality? (2 marks)
- (ii) Discuss why facility X cannot improve the river water quality effectively in the Zhujiang Delta Region. (4 marks)

Section E: Answer ONE question from this section, which must be in a different elective from that chosen in Section D. Each question carries 12 marks.

5. Elective: Dynamic Earth

Candidates attempting this question are NOT allowed to choose Question 1 in Section D.

Describe the formation and characteristics of volcanic rocks. Discuss the relative importance of the characteristics of these rocks in shaping the physical landscape of Hong Kong. (12 marks)

6. Elective: Weather and Climate

Candidates attempting this question are NOT allowed to choose Question 2 in Section D.

Describe and explain the climatic characteristics of northwestern China. Comment on the significance of climate in causing severe sandstorms in northwestern China. (12 marks)

7. Elective: Transport

Candidates attempting this question are NOT allowed to choose Question 3 in Section D.

Account for the favourable factors of Hong Kong to be a regional logistics hub. Discuss whether the completion of the Hong Kong-Zhuhai-Macao Bridge will enhance cooperation or create competition between Hong Kong and Guangdong Province in logistics industry. (12 marks)

8. Elective: Regional Study of Zhujiang Delta

Candidates attempting this question are NOT allowed to choose Question 4 in Section D.

Describe and explain the industrial development of the Zhujiang Delta Region in the last decade. Discuss the importance of scientific research and human resources on the industrial development of the region. (12 marks)

- ① coarse grained.
② interlocking crystals.
③ presence of joints.
- ④
- END OF PAPER
- coarse grained.
interlocking crystals.
presence of joints.
block fragmentation
light fragmentation
exfoliation
wavy waves
weathering
periodic weathering
wind
water
ice
heat
lightning
volcanoes
wind
water
ice
heat
lightning
volcanoes
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