

GEOGRAPHY PAPER 2

11.45 am – 1.00 pm (1¼ 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.

Not to be taken away before the
end of the examination session

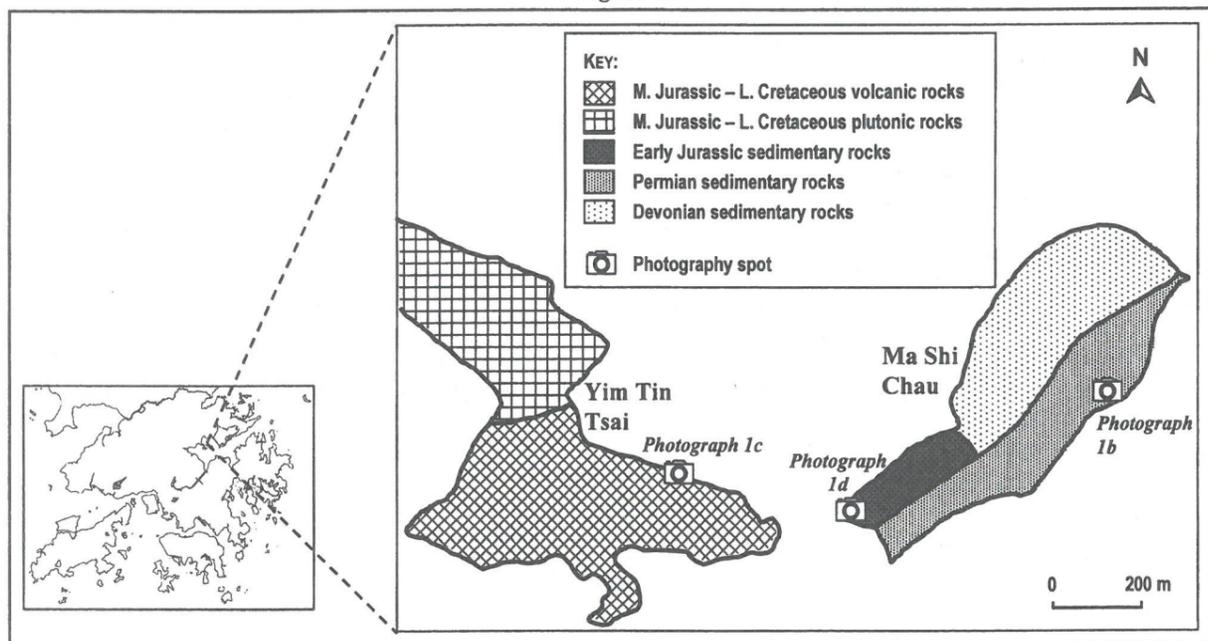
Section D: Answer ONE question from this section, which must be in a different elective from that chosen in Section E. Each question carries 18 marks.

1. Elective: Dynamic Earth

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

Figure 1a shows the simplified geological map of Yim Tin Tsai and the Ma Shi Chau Special Area at which Photographs 1b, 1c and 1d were taken. Photographs 1b, 1c and 1d show features X, Y and Z respectively.

Figure 1a



Photograph 1b



Photograph 1c



Photograph 1d



(a) Refer to Figure 1a.

(i) Describe the characteristics of the rock type in Ma Shi Chau. (3 marks)

(ii) Explain the formation of that type of rock. (5 marks)

(b) Refer to Photograph 1b. Draw a series of annotated diagrams to explain how internal processes shape feature X. (4 marks)

(c) External processes change the rock structure.

(i) Refer to Figure 1a and Photograph 1c. Describe the favourable physical factors leading to the formation of feature Y. (2 marks)

(ii) Refer to Photographs 1c and 1d. Compare the weathering processes leading to the formation of features Y and Z in a table form. (4 marks)

2. Elective: Weather and Climate

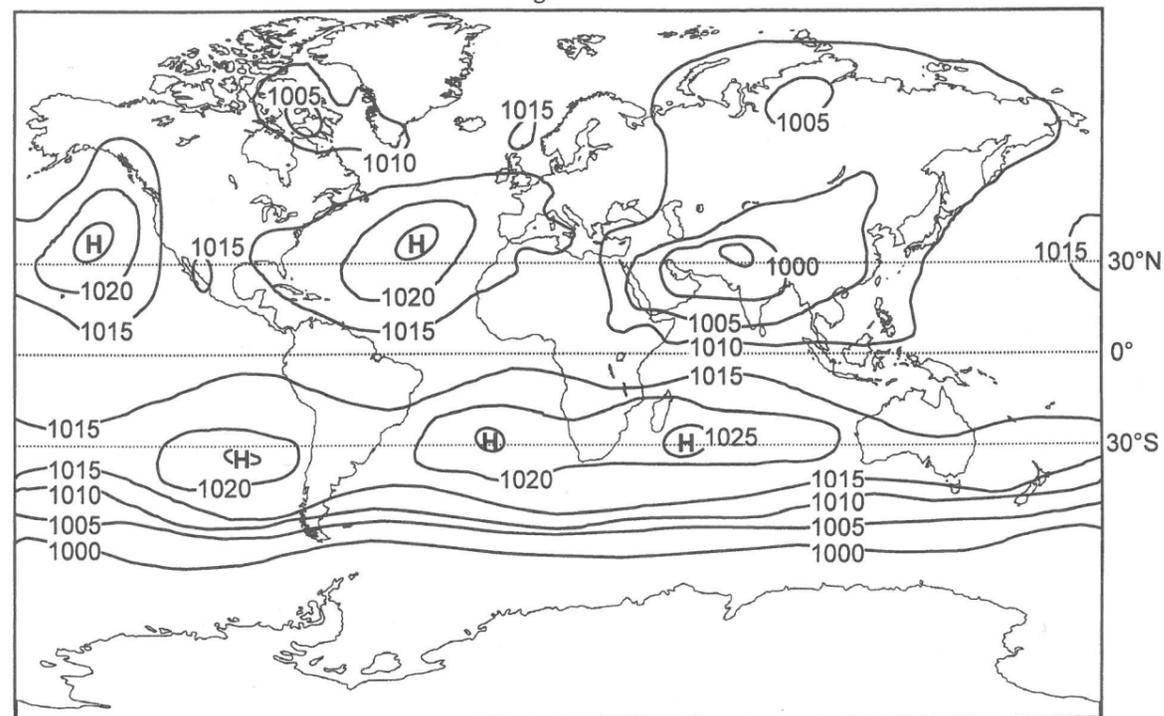
Candidates attempting this question are NOT allowed to choose Question 6 in Section E.

Table 2a shows the amount of monthly insolation (W/m^2) at the ground surface at 0° and $90^\circ S$. Figure 2b shows the global air pressure pattern in July.

Table 2a

Monthly insolation (W/m^2) at the ground surface												
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
0°	425	435	440	425	405	390	400	420	430	425	420	410
$90^\circ S$	525	300	75	0	0	0	0	0	25	250	450	550

Figure 2b



Key:

— 1000 — Isobar (hPa) (H) High pressure

(a) Refer to Table 2a.

(i) Draw a line graph to show the monthly insolation (W/m^2) at the ground surface at 0° and $90^\circ S$ on a piece of graph paper. (3 marks)

(ii) Describe the annual variation of insolation at 0° and $90^\circ S$. (3 marks)

(iii) Explain the annual variation of insolation at $90^\circ S$. (4 marks)

(b) Refer to Table 2a and Figure 2b. Describe and explain how the amount of insolation in July affects the air pressure at 0° . (3 marks)

(c) Refer to Figure 2b. Account for the pressure pattern along $30^\circ N$. (5 marks)

3. Elective: Transport

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

Figure 3a shows the amount of international cargo handled by sea transport in the Zhujiang Delta Region from 1996 to 2008. Figure 3b shows some transport networks and industrial parks in the Zhujiang Delta Region in the 1990s and 2000s.

Figure 3a

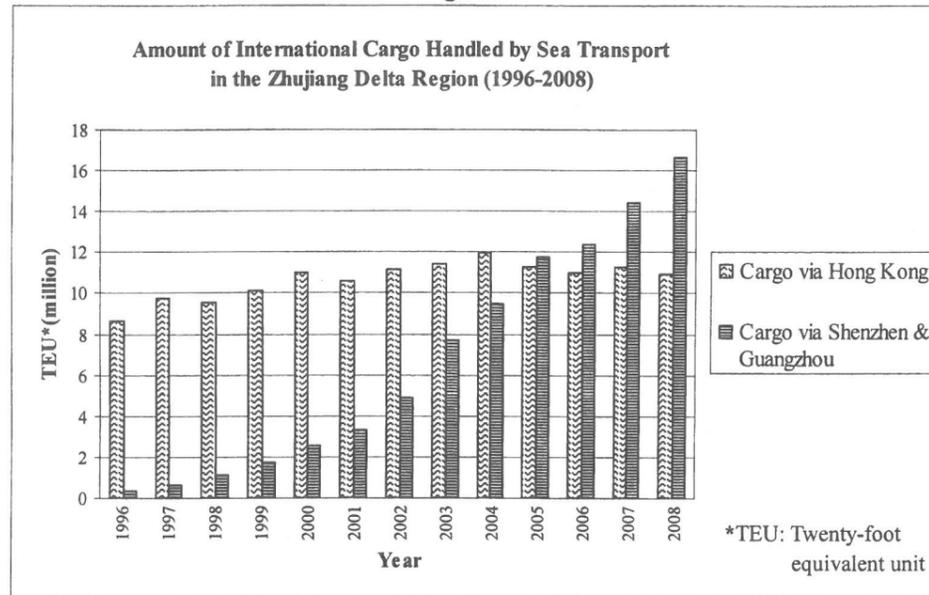
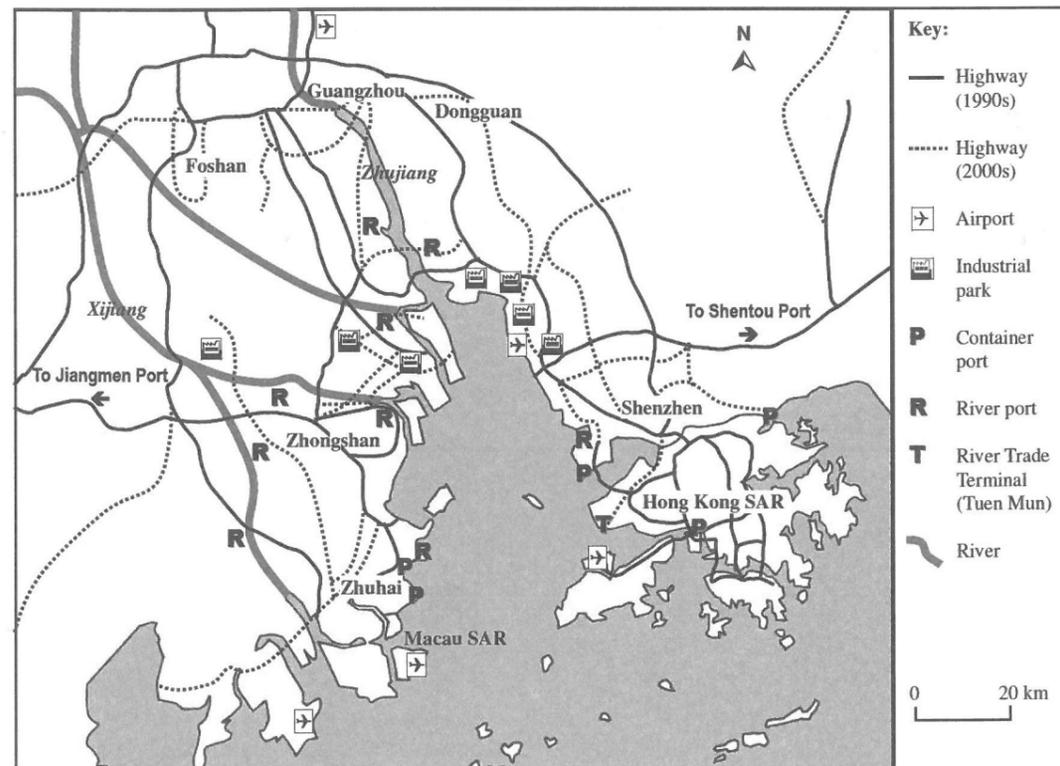


Figure 3b



(a) Refer to Figure 3a.

(i) Calculate the percentage changes of international cargo movement by sea transport via Hong Kong and via Shenzhen & Guangzhou respectively from 1996 to 2008. (2 marks)

(ii) Using the information in Figure 3b, describe and explain the changes in (a) (i). (6 marks)

(b) Refer to Figure 3b.

(i) Describe the distribution of river ports in the Zhujiang Delta Region. (2 marks)

(ii) Quoting map evidence, describe the locational advantages of the River Trade Terminal at Tuen Mun. (4 marks)

(c) Despite the expansion of highway networks in the Zhujiang Delta Region the total container throughput of river cargo vessels in Hong Kong increased by 20% from 2000 to 2012.

Explain the changes in the total container throughput. (4 marks)

4. Elective: Regional Study of Zhujiang Delta

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

Table 4a shows the information of farming in Dongguan from 1990 to 2010. Photographs 4b and 4c show a farm in Dongguan in the past and at present respectively.

Table 4a

	1990	2000	2010
Area of cultivated land ('000 hectares)	882.6	663.3	576.9
Production of staple crops ('000 tonnes)	494.3	204.1	12.5
Production of fruit ('000 tonnes)	282.4	129.4	75.5
Production of vegetables ('000 tonnes)	444.4	658.1	392.9

Photograph 4b



Photograph 4c



(a) Refer to Table 4a.

(i) Draw a line graph to show the changes in the area of cultivated land, production of staple crops, production of fruit and production of vegetables in Dongguan from 1990 to 2010 **on a piece of graph paper.** (3 marks)

(ii) Describe and explain the changes in (a) (i). (5 marks)

(b) Refer to Photographs 4b and 4c.

(i) Compare the human inputs on the farming systems of the farm in the past and at present. (4 marks)

(ii) Explain the advantages of the present farming system. (3 marks)

(iii) Explain why **not** all farms in the Zhujiang Delta Region adopt the present farming system shown in Photograph 4c. (3 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.

Explain how the rock types affect the characteristics of landscapes in Hong Kong. Discuss how the nature of rocks restricts the housing and transport development in Hong Kong. (12 marks)

6. Elective: Weather and Climate

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

Compare the climate of southeast and northwest China. Discuss whether the pressure system is the major controlling factor of the rainfall patterns of these two regions. (12 marks)

7. Elective: Transport

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

Explain how the construction of road and railway networks helps to solve various traffic problems in Hong Kong. Evaluate whether traffic management strategies are better means to solve the traffic problems. (12 marks)

8. Elective: Regional Study of Zhujiang Delta

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

Explain how urban development in the Zhujiang Delta Region affects the river water quality. Comment on the effectiveness of legislation in alleviating the problem. (12 marks)

END OF PAPER

Sources of materials used in this paper will be acknowledged in the *Examination Report and Question Papers* published by the Hong Kong Examinations and Assessment Authority at a later stage.

Marking Schemes

**Paper 1
Section A**

Question No.	Key	Question No.	Key
1.	B (64%)	21.	D (74%)
2.	A (82%)	22.	A (66%)
3.	B (39%)	23.	B (73%)
4.	C (35%)	24.	A (92%)
5.	C (61%)	25.	B (98%)
6.	D (54%)	26.	D (78%)
7.	C (71%)	27.	D (77%)
8.	A (72%)	28.	B (77%)
9.	B (35%)	29.	D (78%)
10.	D (84%)	30.	C (86%)
11.	B (73%)	31.	C (58%)
12.	D (33%)	32.	A (67%)
13.	D (64%)	33.	A (70%)
14.	C (74%)	34.	B (89%)
15.	C (44%)	35.	D (83%)
16.	B (81%)	36.	A (77%)
17.	A (74%)	37.	D (46%)
18.	A (77%)	38.	C (86%)
19.	C (39%)	39.	C (36%)
20.	B (79%)	40.	A (46%)

Note: Figures in brackets indicate the percentages of candidates choosing the correct answers.