HONG KONG EXAMINATIONS AND ASSESSMENT AUTHORITY
HONG KONG DIPLOMA OF SECONDARY EDUCATION EXAMINATION 2015

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
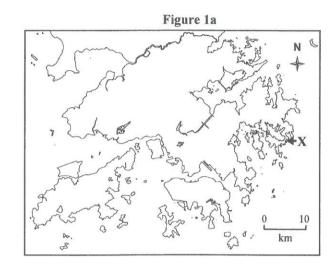> end of the examination session

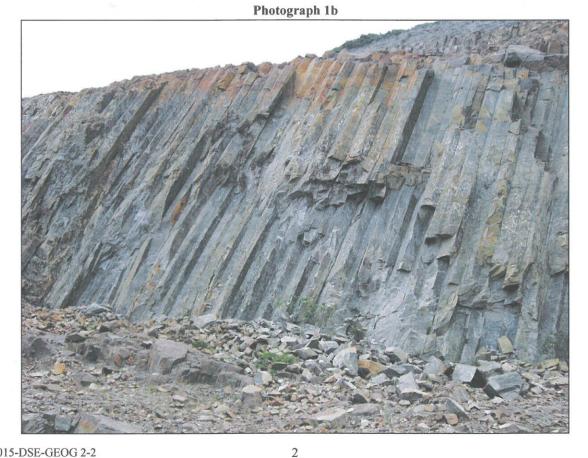Section D: Answer ONE question from this section, which must be in a different elective from that chosen in Section E. Each question carries 18 marks.

1. **Elective: Dynamic Earth**

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

   Figure 1a shows the location of area X. Photograph 1b shows the rock and landform feature of area X. Photograph 1c shows a Government's measure in response to mass wasting at area X.

Figure 1a

Photograph 1b

Photograph 1c

(a) Refer to Figure 1a and Photograph 1b.

   (i) Identify the rock type. (1 mark)

   (ii) State the characteristics of the rock type. (2 marks)

   (iii) Describe the formation of the rock type. (4 marks)

(b) Photograph 1b shows that mass wasting has occurred in area X.

   (i) Identify the type of mass wasting. Give photograph evidence to support your answer. (2 marks)

   (ii) Quoting photograph evidence, explain the natural causes of the mass wasting. (4 marks)

(c) Refer to Photograph 1c. Discuss whether the measure taken by the Government in response to the mass wasting at area X is appropriate or not. (5 marks)
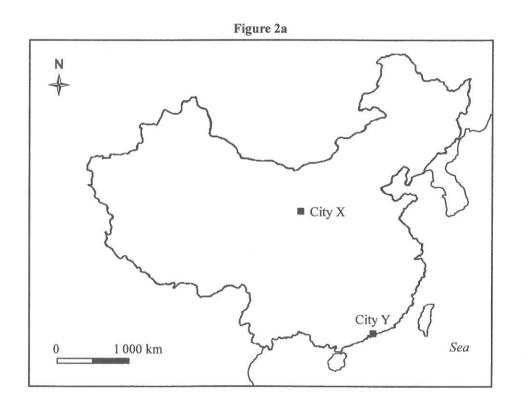
2. **Elective: Weather and Climate**

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

Figure 2a shows the locations of cities X and Y.   Table 2b shows the climatic conditions of these two cities.
Table 2c shows the wind direction frequency of city X in July and December.

Figure 2a

Table 2b

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Data set A	Mean temperature (°C)	-3	0	10	15	21	24	26	24	20	13	5	-3
	Amount of precipitation (mm)	9	9	17	39	57	88	128	138	86	45	21	15
Data set B	Mean temperature (°C)	17	19	21	25	28	30	31	31	30	28	24	19
	Amount of precipitation (mm)	25	54	82	180	305	452	372	410	313	89	38	28

Table 2c

Wind direction	Frequency (%)	
	July	December
N	6.7	19.8
NE	16.2	21.4
E	9.2	7.9
SE	6.7	7.9
S	14.8	13.0
SW	28.0	13.1
W	13.3	7.4
NW	5.1	9.5

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

   (i)   Match cities X and Y with data sets A and B.   (1 mark)

   (ii)   Describe and explain the differences in temperature between cities X and Y.   (6 marks)

(b)   Refer to Figure 2a and Table 2c.   Account for the patterns of prevailing winds of city X in July and
      December respectively.   (6 marks)

(c)   Refer to the information of city X shown in Figure 2a, Table 2b and Table 2c.

   (i)   Identify the climatic hazard induced by the precipitation pattern.   (1 mark)

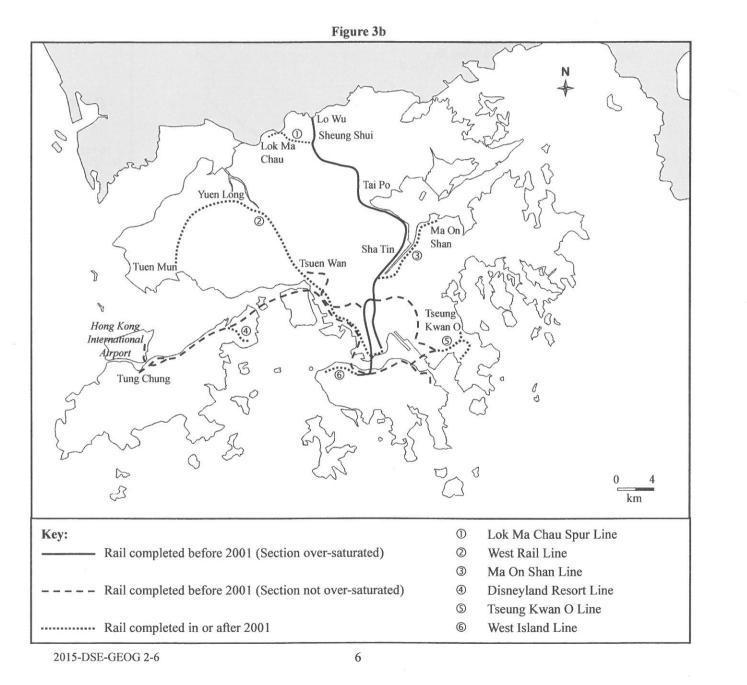   (ii)   Discuss the role of wind in the occurrence of the climatic hazard stated in (c) (i).   (4 marks)

3. **Elective: Transport**

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

Table 3a shows the percentage distribution of average daily passengers carried by different public transport modes from 2001 to 2013. Figure 3b shows the railway network in Hong Kong.

Table 3a

Year	2001	2003	2005	2007	2009	2011	2013
Railways	31.7	33.3	37.2	36.8	39.0	40.9	41.8
Franchised buses	38.8	36.9	34.4	34.1	32.5	31.3	31.2
Others	29.5	29.8	28.4	29.1	28.5	27.8	27.0

(Figures in %)

Figure 3b

Key:
——— Rail completed before 2001 (Section over-saturated)

- - - - Rail completed before 2001 (Section not over-saturated)

············ Rail completed in or after 2001

① Lok Ma Chau Spur Line
② West Rail Line
③ Ma On Shan Line
④ Disneyland Resort Line
⑤ Tseung Kwan O Line
⑥ West Island Line

(a) Refer to Table 3a.

(i) Draw a line graph to show the changing percentage of average daily passengers carried by railways and franchised buses respectively from 2001 to 2013 **on a piece of graph paper**.

(3 marks)

(ii) With reference to the line graph drawn in (a) (i), describe the changing importance of railways and franchised buses in public transport from 2001 to 2013.

(2 marks)

(b) Refer to Table 3a and Figure 3b. Explain the changing importance of railways and franchised buses in public transport you described in (a) (ii) with reference to:

(i) the characteristics of railway transport;

(3 marks)

(ii) the spatial changes of railway network.

(5 marks)

(c) *Strengthening the cooperation of railways and franchised buses can be a measure to improve the efficiency of public transport in Hong Kong.*

Refer to Table 3a and Figure 3b. Evaluate the effectiveness of such a measure.

(5 marks)

4. **Elective: Regional Study of Zhujiang Delta**

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

Figure 4a shows some information of cities in the Zhujiang Delta Region in 2012. Table 4b shows some information of Dongguan from 2007 to 2012.
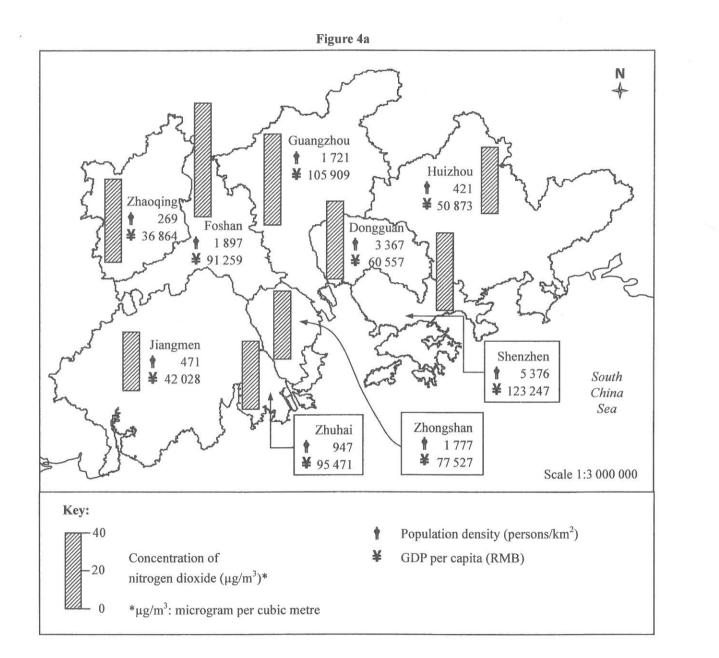
Figure 4a

Key:

Concentration of nitrogen dioxide (μg/m³)*

♟ Population density (persons/km²)

¥ GDP per capita (RMB)

*μg/m³: microgram per cubic metre

Scale 1:3 000 000

Table 4b

Year	Gross industrial output (billion RMB)	Concentration of nitrogen dioxide (μg/m³)
2007	585.2	58
2008	663.3	54
2009	607.1	48
2010	773.9	52
2011	847.0	48
2012	949.3	41

(a)   Refer to Figure 4a.

(i)   Name the city that had the highest and the lowest concentration of nitrogen dioxide respectively in the Zhujiang Delta Region in 2012. Calculate the difference in concentration of nitrogen dioxide between the two cities. (3 marks)

(ii)   Describe the spatial variations of the concentration of nitrogen dioxide in the Zhujiang Delta Region. (2 marks)

(iii)   Explain the spatial variations of the concentration of nitrogen dioxide you described in (a) (ii). (5 marks)

(b)   Refer to Table 4b.

(i)   Describe the general trends of gross industrial output and concentration of nitrogen dioxide in Dongguan from 2007 to 2012 respectively. (3 marks)

(ii)   Discuss the relative importance of government policy in causing the difference in trends shown in (b) (i). (5 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 the occurrence of intensive weathering in granite areas in Hong Kong.   Discuss the relative importance of weathering in shaping the landforms in 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 formation of the planetary wind systems.   Discuss the relative importance of the planetary wind systems in affecting the distribution of major global climatic zones.   (12 marks)

7.   **Elective: Transport**
     Candidates attempting this question are NOT allowed to choose Question 3 in Section D.

     Describe the favourable factors for the development of the logistics industry in Hong Kong.   Discuss the impact of the rapid development of transport infrastructure in the Zhujiang Delta Region on the future of Hong Kong's 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.

     'Branding' refers to manufacturing enterprises designing, producing and selling products in their own brand.

     Explain the challenges that manufacturing industries in the Zhujiang Delta Region have faced since 1990. Evaluate the effectiveness of using branding strategy by manufacturing enterprises in the Zhujiang Delta Region to tackle these challenges.   (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.