HONG KONG EXAMINATIONS AND ASSESSMENT AUTHORITY
HONG KONG DIPLOMA OF SECONDARY EDUCATION EXAMINATION 2018

# 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.

   **Section E** – consists of 4 short essay questions. Choose **ONE** question **only** in this section.

2. Answer a total of **TWO** questions. The two questions chosen can be taken from the same or different electives.

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 any ONE question from this section.   Each question carries 18 marks.**

1.   **Elective: Dynamic Earth**

Figure 1a is a simplified geological map of Lantau Island and Lamma Island, indicating the distribution of rock types X and Y and the peaks over 700 metres.   The location of landform feature Z is also shown in the figure.   Figures 1b and 1c show the weathering profile of rock type X and the general climatic conditions in Hong Kong respectively.   Photograph 1d shows landform feature Z found in the area of rock type X on Lamma Island.
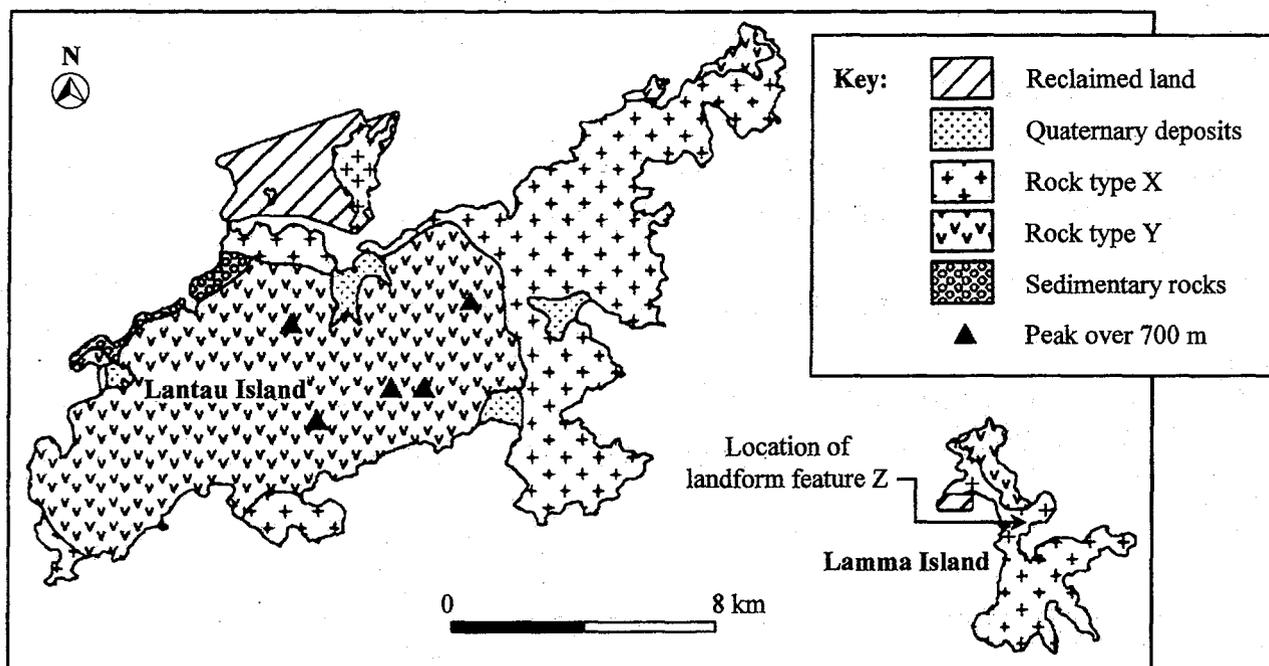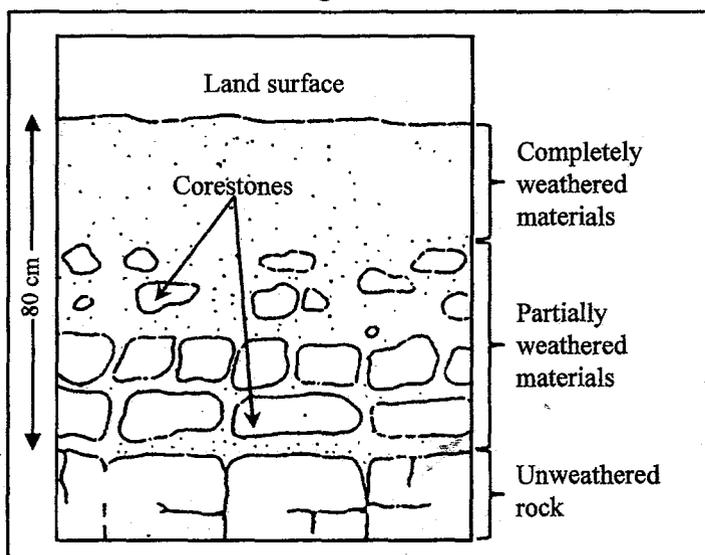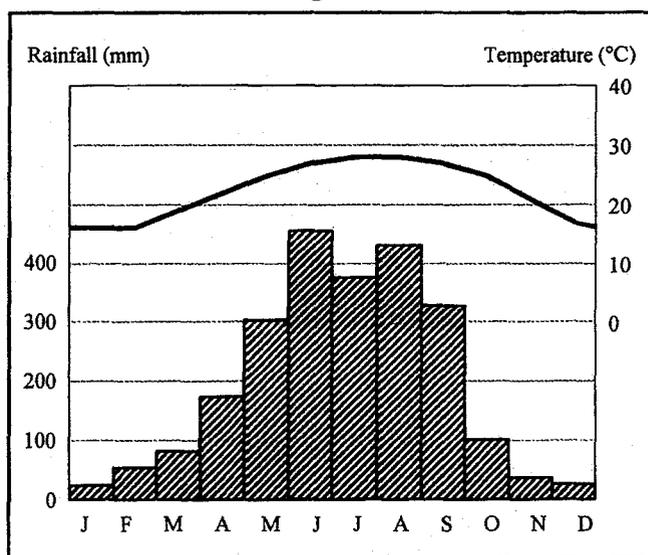
**Figure 1a**



**Figure 1b**



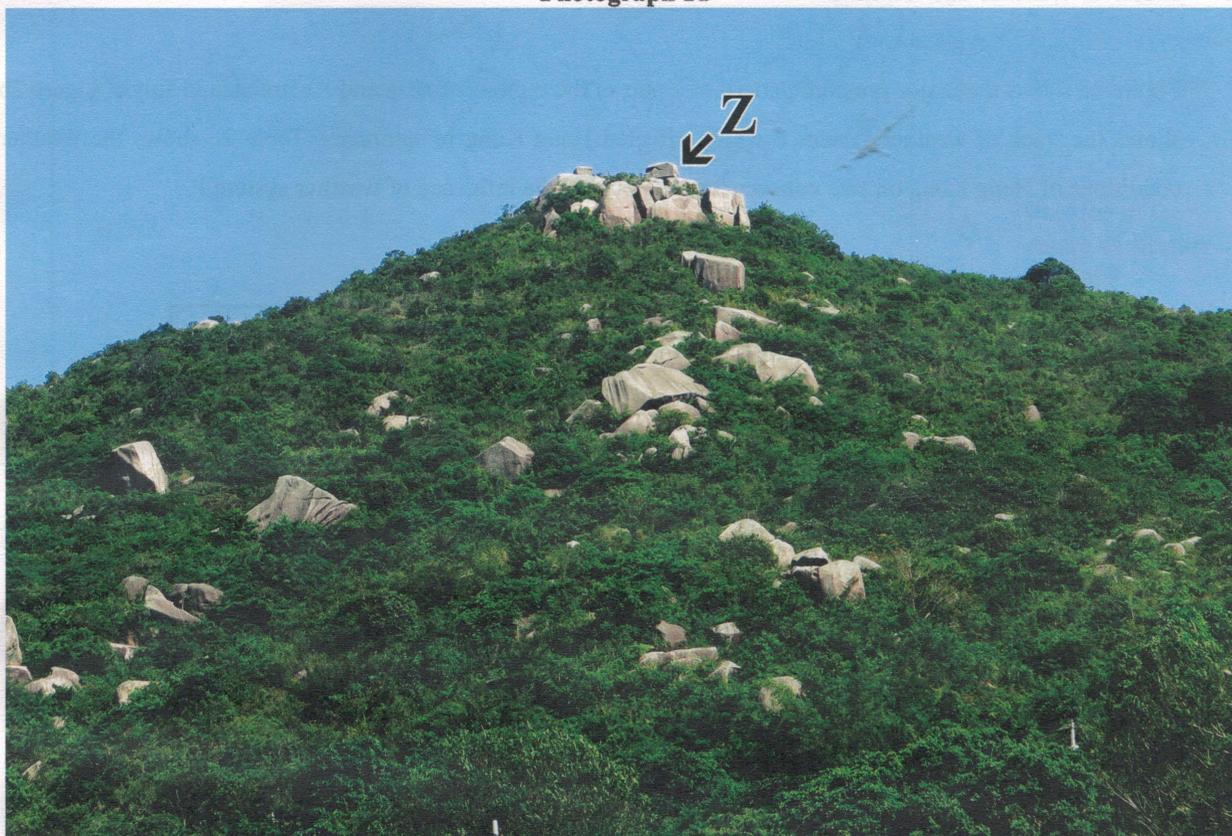**Figure 1c**

**Photograph 1d**
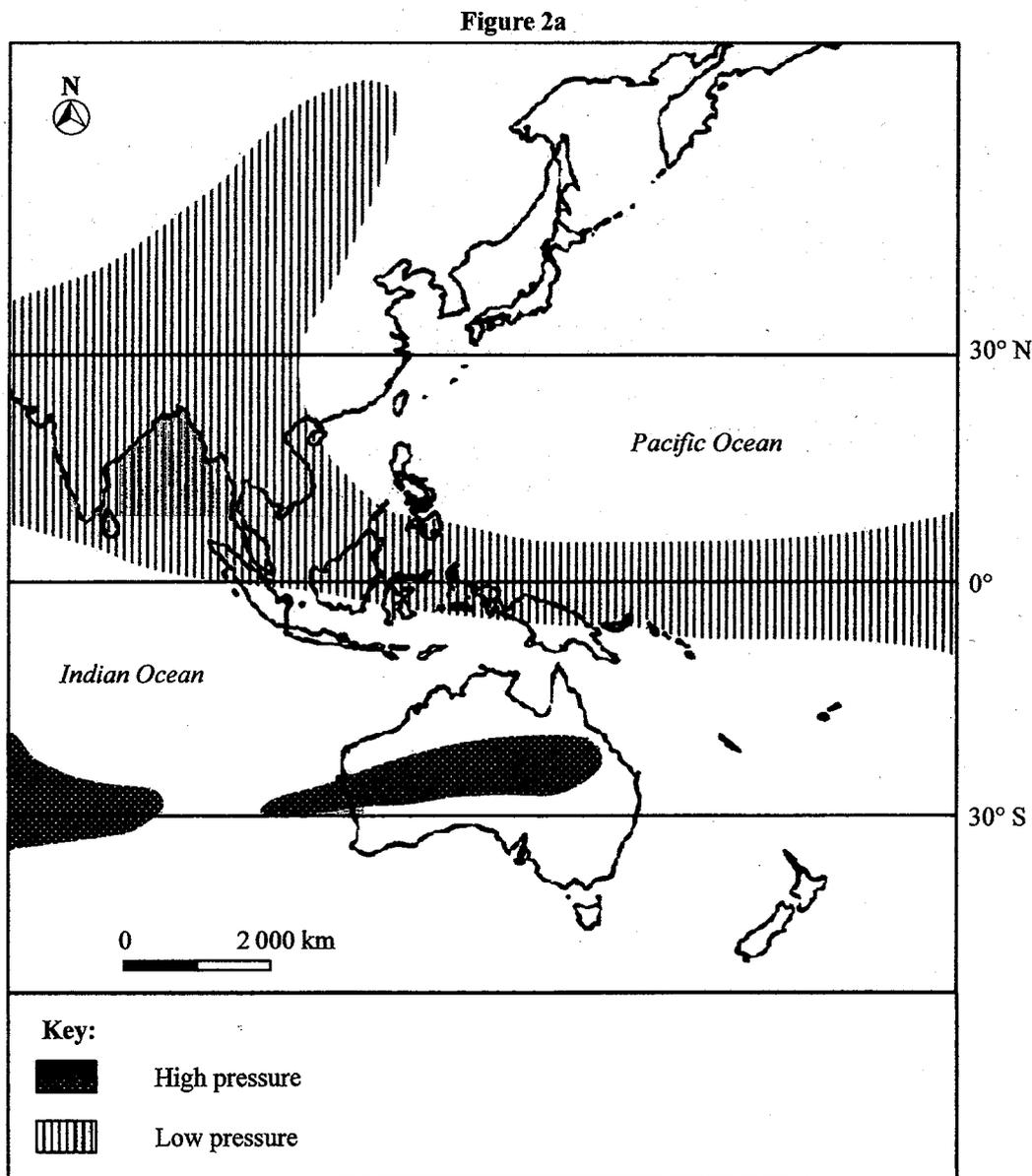


(a)  Refer to Figure 1a.

  (i)  Identify rock types X and Y.                                                     (2 marks)

  (ii)  Explain how rock type Y affects the relief of Lantau Island.                    (2 marks)

(b)  Refer to Figure 1b, Figure 1c and Photograph 1d.

  (i)  Explain why the weathering profile of Figure 1b commonly occurs in areas where rock type X
       is found.                                                                        (5 marks)

  (ii)  Explain the formation of landform feature Z shown in Photograph 1d with reference to the
        weathering profile in Figure 1b.                                                (5 marks)

  (iii)  Discuss whether landform feature Z may induce mass wasting.                    (4 marks)

## 2. Elective: Weather and Climate

Figure 2a shows the major pressure pattern of a part of the regions of Asia and Australasia in July. Figure 2b shows the track of weather system P which affected Hong Kong in summer. Table 2c shows the weather conditions of Hong Kong on **two consecutive days** under the influence of weather system P.

**Figure 2a**



Key:
- High pressure
- Low pressure

(a) Refer to Figure 2a. Describe and explain the monsoon system in Hong Kong under the influence of the pressure pattern in July. (3 marks)
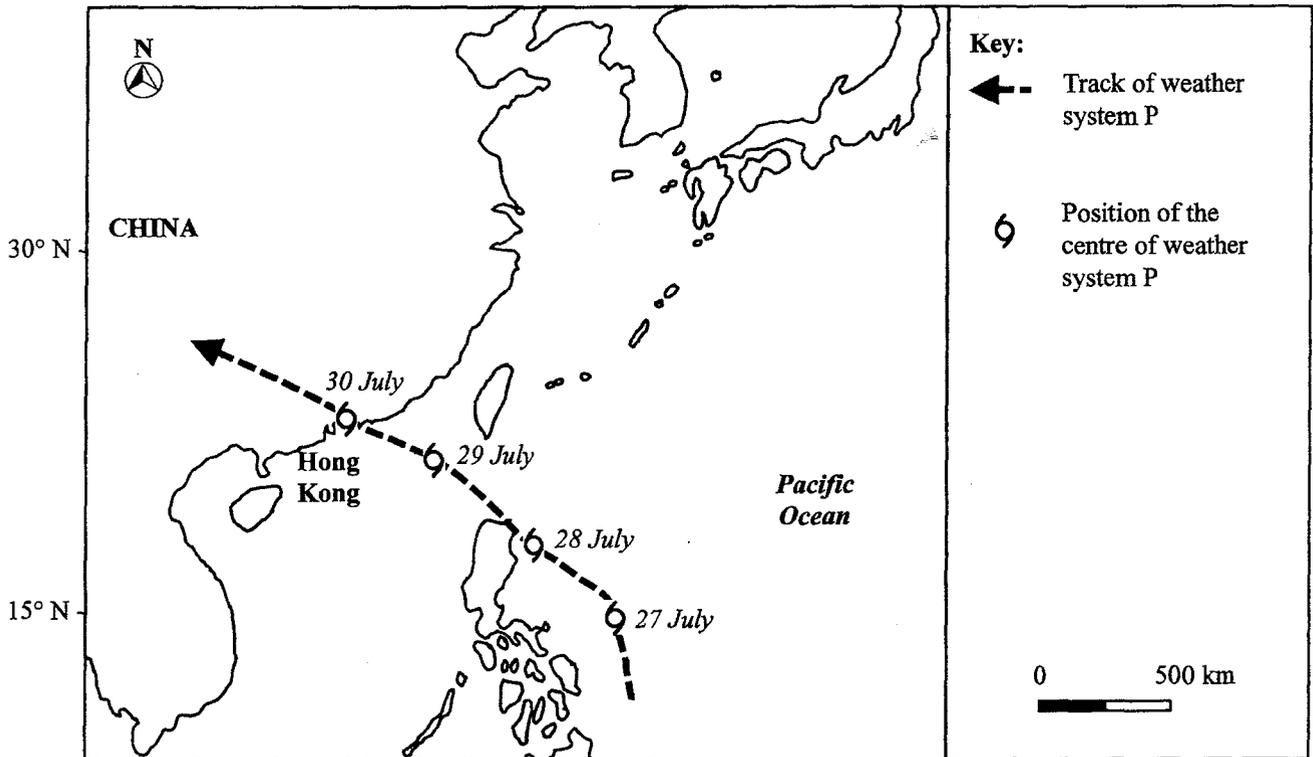
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**Figure 2b**



**Table 2c**

|  | Weather conditions X | Weather conditions Y |
|---|---|---|
| Air pressure (hPa) | 998.8 | 995.9 |
| Wind direction | WNW | SSW |
| Wind speed (km/h) | 19.6 | 52.5 |
| Rainfall in 24 hours (mm) | 4.6 | 121.0 |

(b)    Refer to Figure 2b.   Account for the favourable conditions for the formation of weather system P.

(4 marks)

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

    (i)    On which day would weather conditions X and Y most likely occur respectively?    (1 mark)

    (ii)    Describe and explain the changes in weather conditions of Hong Kong on these two days.

(6 marks)

(d)    Explain how weather system P may temporarily disturb the monsoon system in Hong Kong mentioned in (a).    (4 marks)

3. **Elective: Transport Development, Planning and Management**

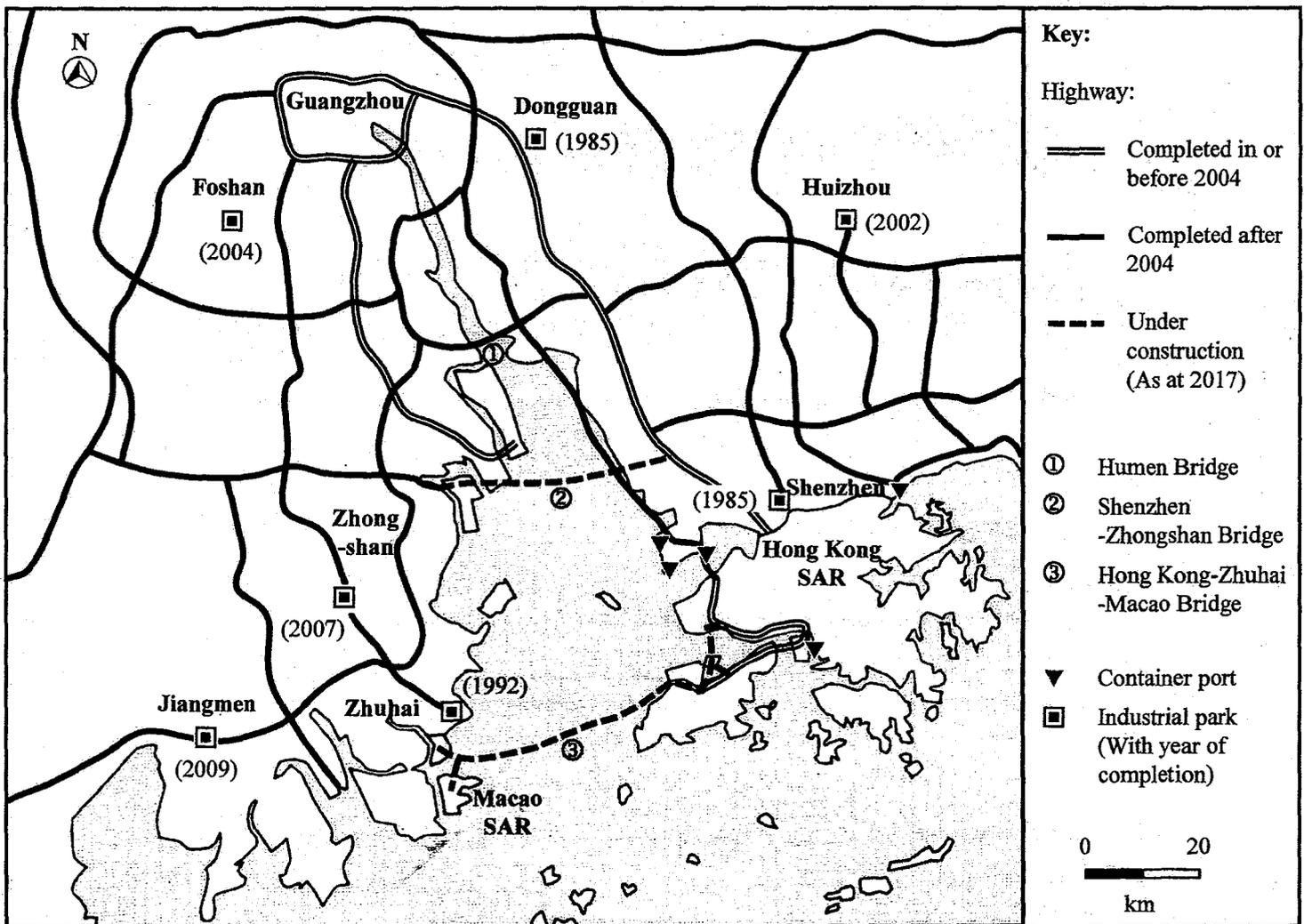Table 3a shows the throughput of container ports in Hong Kong and Shenzhen from 2004 to 2016. Figure 3b shows the distribution of some major highways and industrial parks in the Zhujiang Delta Region.

**Table 3a**

|  | 2004 | 2006 | 2008 | 2010 | 2012 | 2014 | 2016 |
|---|---|---|---|---|---|---|---|
| Hong Kong | 21 984 | 23 539 | 24 248 | 23 532 | 23 117 | 22 374 | 19 813 |
| Shenzhen | 13 615 | 18 469 | 21 414 | 22 510 | 22 940 | 23 798 | 24 220 |

(Figures in thousand twenty-foot equivalent units/ TEUs)

**Figure 3b**

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

   (i)    Compare the throughput of container ports in Hong Kong and Shenzhen from 2004 to 2016 shown in Table 3a.                                                                  (2 marks)

   (ii)   What were the changes in the network of major highways in the Zhujiang Delta Region after 2004?                                                                                 (4 marks)

   (iii)  How did the changes mentioned in (a) (ii) favour the development of container ports in Shenzhen?                                                                              (4 marks)


(b)    *There was a suggestion to construct the Hong Kong-Zhuhai-Macao Bridge to improve land connection between Hong Kong and the Zhujiang Delta Region, hence raising the throughput of container port in Hong Kong.*

   Refer to Figure 3b.

   (i)    Explain how the Hong Kong-Zhuhai-Macao Bridge may improve the flow of goods in the Zhujiang Delta Region.                                                                   (4 marks)

   (ii)   Discuss whether the Hong Kong-Zhuhai-Macao Bridge may effectively raise the throughput of container port in Hong Kong.                                                       (4 marks)

## 4. Elective: Regional Study of Zhujiang (Pearl River) Delta

Figure 4a shows a typical production operation in the Zhujiang Delta Region in the 1980s. Table 4b provides some information of the industrial development in Shenzhen and Hong Kong in the 1980s; Table 4c shows the same information regarding Shenzhen in the 2000s.
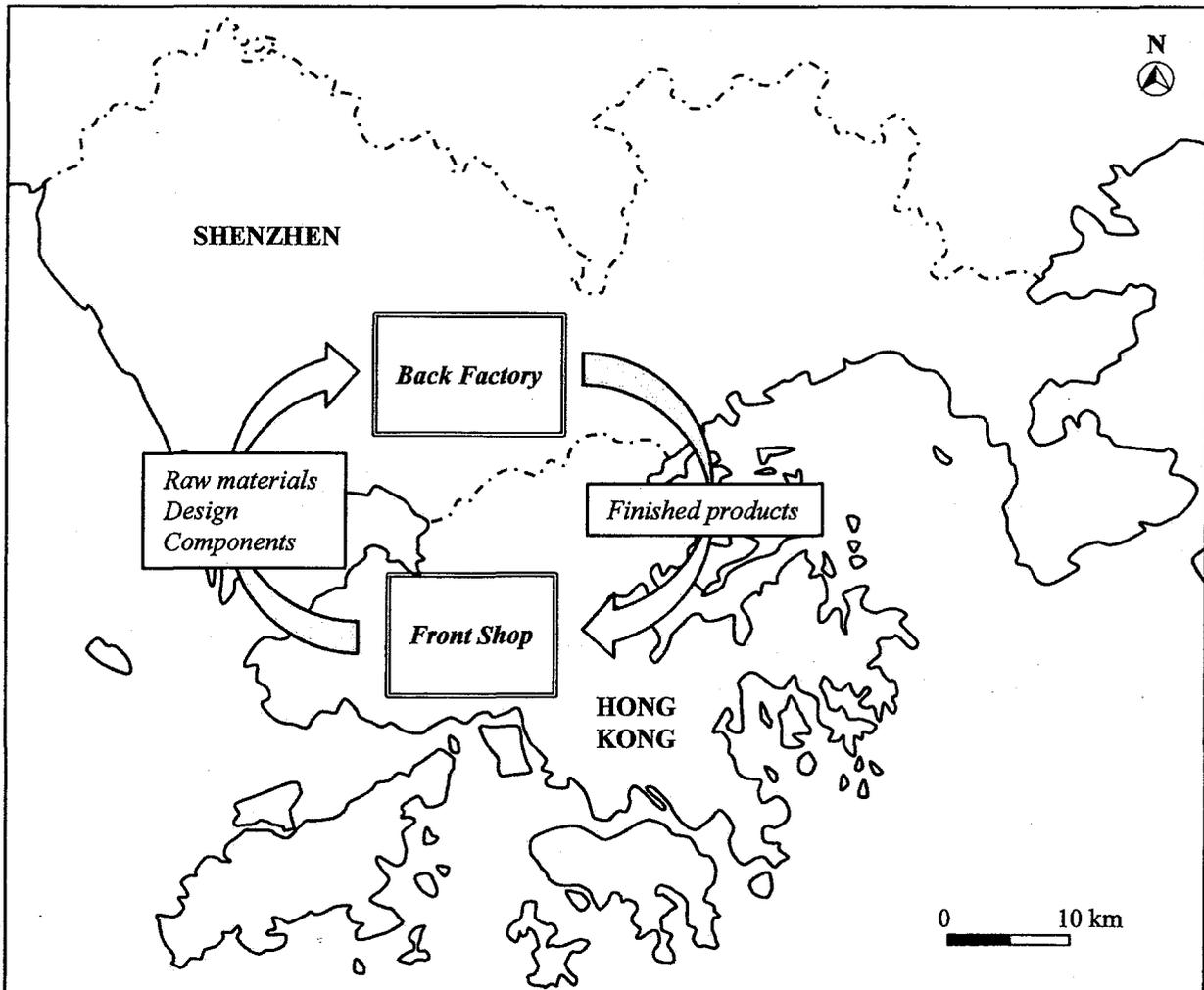
### Figure 4a

**Table 4b**

|  | Shenzhen (1980s) | Hong Kong (1980s) |
|---|---|---|
| Population engaged in manufacturing industry (%) | 67.8 | 34.2 |
| Average monthly wage of manufacturing workers (RMB) | 201.5 | 5 900.0 |
| Industrial land rent (RMB per m$^2$) | 4 | 45 |
| Major types of industry | Shoe-making, textile, garment | Textile, garment, plastics, electronics |
| Government policy | Tax concessions | Positive non-intervention |

**Table 4c**

|  | Shenzhen (2000s) |
|---|---|
| Population engaged in manufacturing industry (%) | 54.3 |
| Average monthly wage of manufacturing workers (RMB) | 2 706.0 |
| Industrial land rent (RMB per m$^2$) | 18 |
| Major types of industry | Mobile phones, computer products, home appliances |
| Government policy | Encourage high value-added industries |

(a)　Refer to Figure 4a and Table 4b.

　　(i)　Describe the characteristics of the production operation shown in Figure 4a.　　(4 marks)

　　(ii)　Explain why this production operation occurred in the 1980s.　　(4 marks)

(b)　Refer to Tables 4b and 4c.

　　(i)　Describe the changes in major types of industry in Shenzhen in the 1980s and 2000s.

　　　　(2 marks)

　　(ii)　Explain the changes mentioned in (b) (i).　　(4 marks)

(c)　*The average monthly wage of manufacturing workers in Shenzhen has increased to RMB 6 454 in the 2010s, leading to a rise in the cost of production.*

　　Discuss whether the use of branding strategy may help to sustain the manufacturing industry in Shenzhen under the rising cost of production.　　(4 marks)

**Section E: Answer any ONE question from this section.    Each question carries 12 marks.**

5.    **Elective: Dynamic Earth**

Describe how the distribution of major faults shaped the physical landscape in Hong Kong.    Discuss whether the resultant physical landscape may affect urban development in Hong Kong.    (12 marks)

6.    **Elective: Weather and Climate**

Compare the rainfall characteristics between northern and southern China.    Discuss the effectiveness of the water transfer scheme in alleviating the water problems related to such rainfall characteristics.    (12 marks)

7.    **Elective: Transport Development, Planning and Management**

Explain how the transport patterns in Hong Kong cause road congestion.    Discuss the effectiveness of electronic road pricing in alleviating road congestion in Hong Kong.    (12 marks)

8.    **Elective: Regional Study of Zhujiang (Pearl River) Delta**

Explain why the air pollution problem is becoming more serious in the Zhujiang Delta Region in recent years. Discuss whether cross-border cooperation may help alleviate air pollution in the Zhujiang Delta Region.

(12 marks)

**END OF PAPER**

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

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