福建中學

FUKIEN SECONDARY SCHOOL

S6 Mock Examination (2021-2022)

Geography Paper 2

(1 hour 15 minutes)

Date: 25th January 2022 Name: _____

Time: 11:30 a.m. - 12:45 p.m. Class: _____ No.: _____

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.

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. Each question carries 18 marks. (15%)

Elective: Dynamic Earth

1. Photo 1a shows a type of sedimentary rock in Hong Kong. Figures 1b and 1c show a simplified geological map and a topographic map of western Lantau Island respectively.

Photo 1a

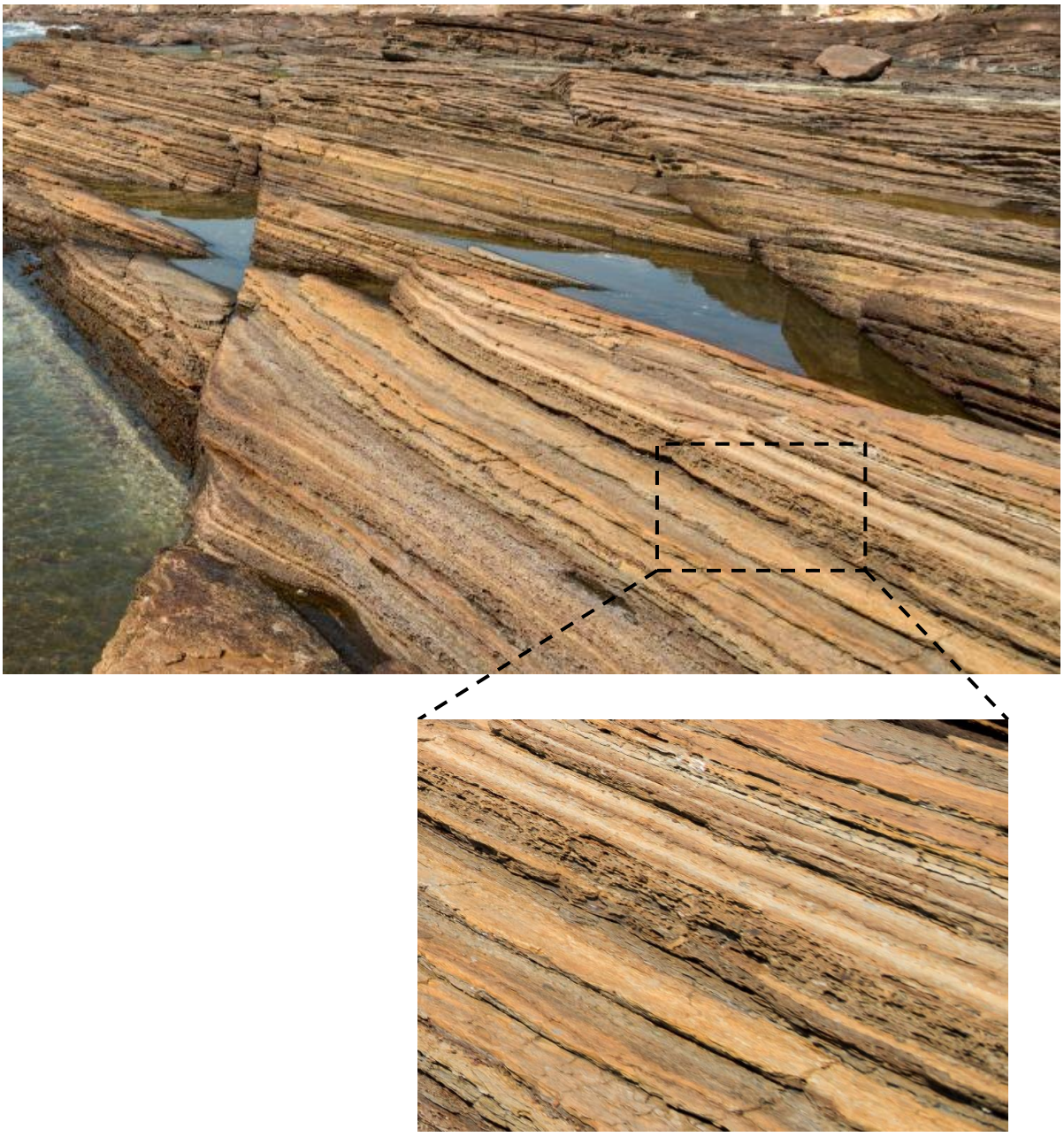


Figure 1b

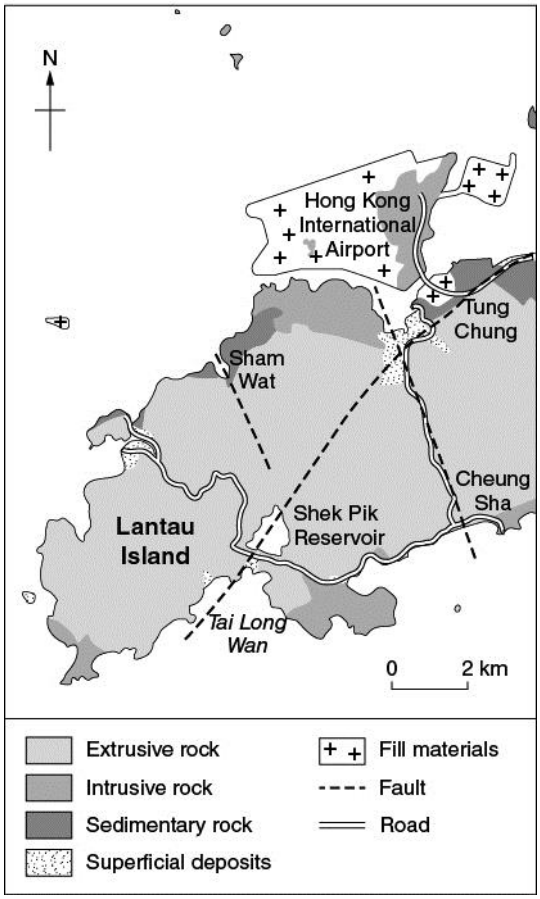
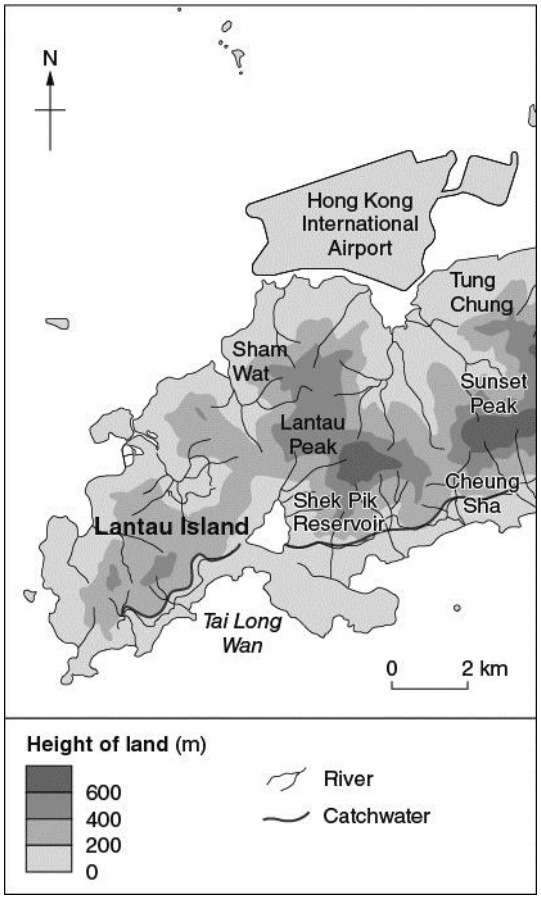


Figure 1c



(a) Refer to Photo 1a.

(i) Identify the type of sedimentary rock shown in the photo. (1 mark)

(ii) Explain the characteristics of this type of rock with reference to its formation. (4 marks)

(b) Quoting evidence from Figures 1b and 1c, describe how human activities have modified the physical landscape of western Lantau Island. (4 marks)

(c) Refer to Figures 1b and 1c.

(i) Explain how faulting affects the relief of western Lantau Island. (4 marks)

(ii) Discuss the benefits and threats brought by faulting to human activities in western Lantau Island. (5 marks)

Elective: Weather and Climate

2. Figure 2a shows the global insolation pattern, the location of place Y and the Intertropical Convergence Zone (ITCZ) in July and January. Figure 2b shows the pressure belts and cells of atmospheric circulation. Figure 2c shows the climatic graph of place Y.

Figure 2a

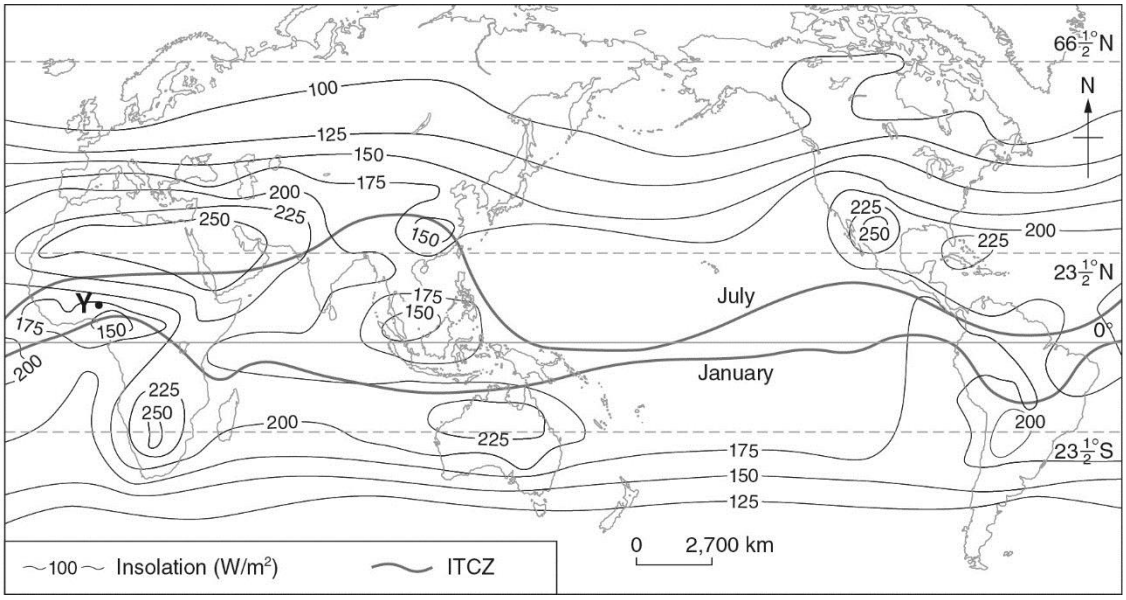


Figure 2b

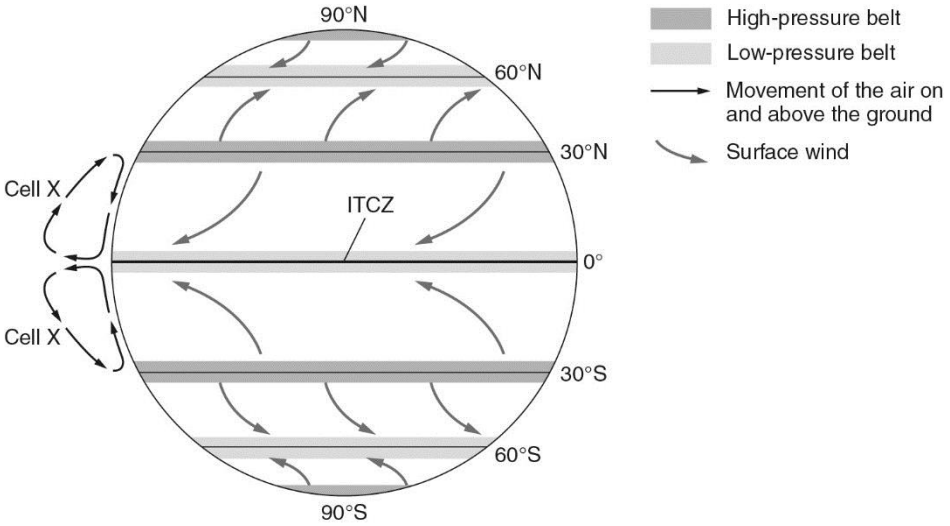
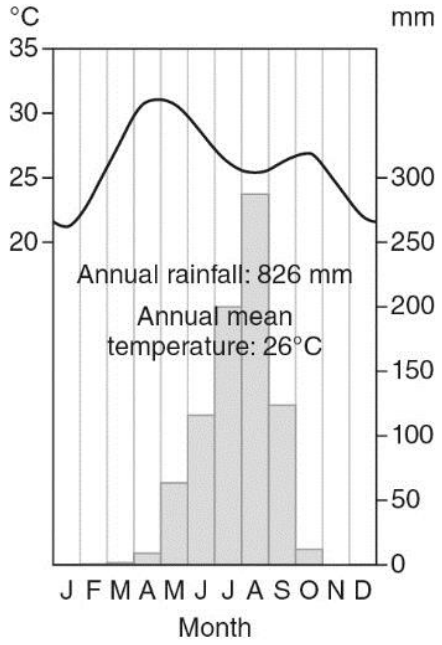


Figure 2c



(a) Refer to Figure 2a. Describe and explain the latitudinal variation in insolation. (5 marks)

(b) Refer to Figures 2a and 2b.

(i) Name cell X. (1 mark)

(ii) Explain how the general latitudinal variation in insolation leads to the formation of cell X. (4 marks)

(c) Refer to Figures 2a, 2b and 2c.

(i) Describe the temperature and rainfall characteristics of place Y. (4 marks)

(ii) Discuss the relationship between the seasonal shifting of cell X and the rainfall characteristics of place Y. (4 marks)

Elective: Transport, Development, Planning and Management

3. Figure 3a shows the traffic condition of some major roads in Hong Kong at 8 a.m. on a typical weekday. Table 3b shows the information about the vehicular flows in the Lion Rock Tunnel and the Tate's Cairn Tunnel in 2020. Figure 3c shows part of the railway network in Hong Kong. Table 3d shows the information about bus routes X and Y.

Figure 3a

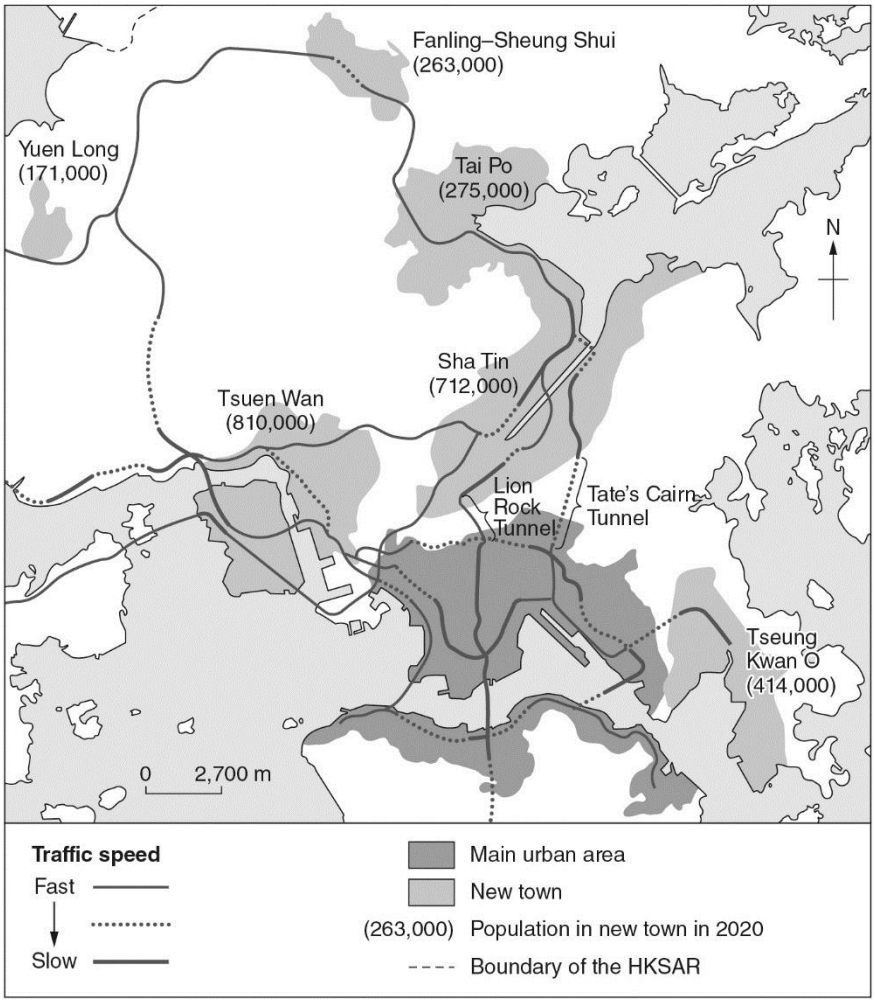


Table 3b

	Lion Rock Tunnel	**Tate's Cairn Tunnel**
Designed capacity (cars/hour, one-way)	2,600	2,600
Average vehicular flow in the southbound direction during morning peak hours on weekdays (cars/hour, one-way)	3,108	2,818

Figure 3c

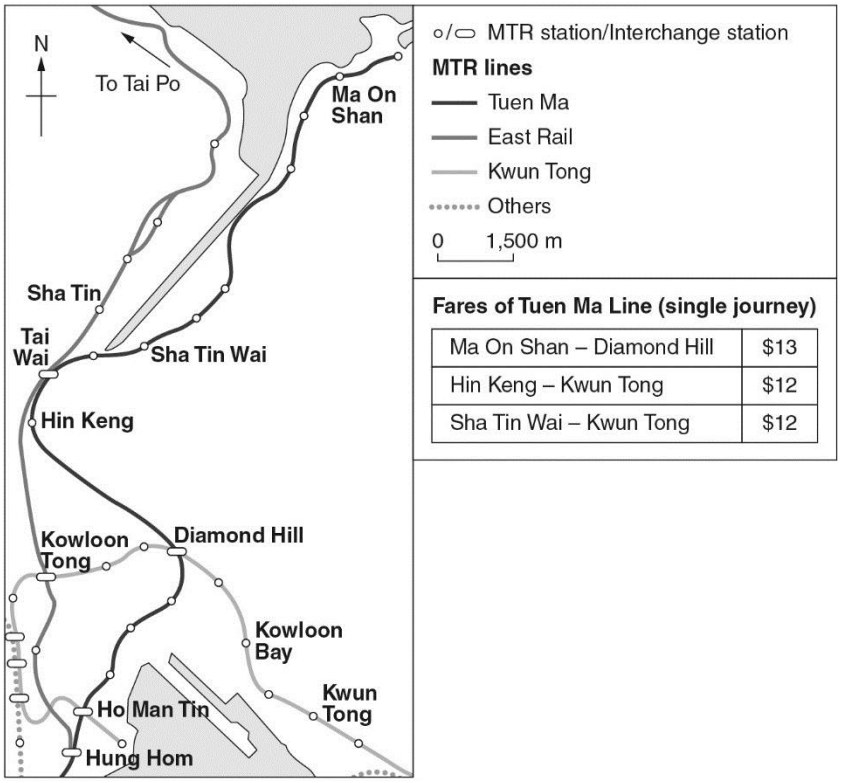


Table 3d

	Bus route X		**Bus route Y**	
Routing	Sha Tin Wai ↔ Kwun Tong (Via: Lion Rock Tunnel)		Ma On Shan ↔ Diamond Hill (Via: Tate's Cairn Tunnel)	
Fare (2021)	$7.2		$7.6	
	Before the opening of TML Phase 1	After the opening of TML Phase 1	Before the opening of TML Phase 1	After the opening of TML Phase 1
Loading rate (%)	98.8	57.8	87.5	46.8
Frequency (min/bus)	8–15	10–15	15–20	20–30

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

(i) Identify the transport problem found at the northern entrances of the Lion Rock Tunnel and the Tate's Cairn Tunnel. Support your answer with evidence. (2 marks)

(ii) Explain the economic impacts brought by the transport problem in question (a)(i). (3 marks)

(iii) Quoting evidence, explain the occurrence of the transport problem in question (a)(i). (4 marks)

(b) Refer to Figures 3a, 3c and Table 3d.

(i) Describe the possible changes in the transport mode of the residents living in the north-eastern New Territories after the opening of Tuen Ma Line. (2 marks)

(ii) Explain how the changes in question (b)(i) help ease the transport problem in question (a)(i). (3 marks)

(c) Refer to Figures 3a, 3c and Table 3d.

Discuss the social sustainability of developing Tuen Ma Line. (4 marks)

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Elective: Regional Study of Zhujiang Delta

4. Figure 4a shows the water quality of some rivers in the ZDR in 2019. Table 4b shows the information of some cities in the ZDR in 2019. Figure 4c shows the amount of sewage discharged in Guangdong from 1990 to 2018.

Figure 4a

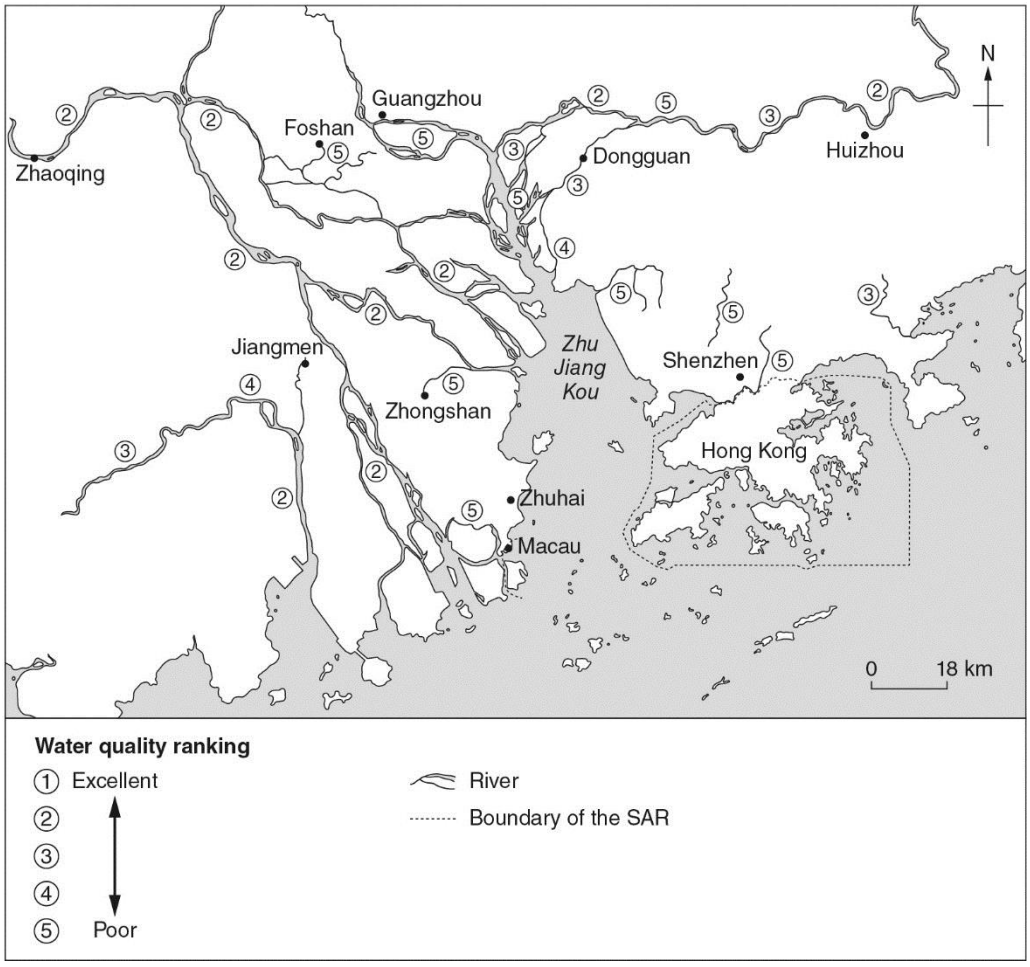
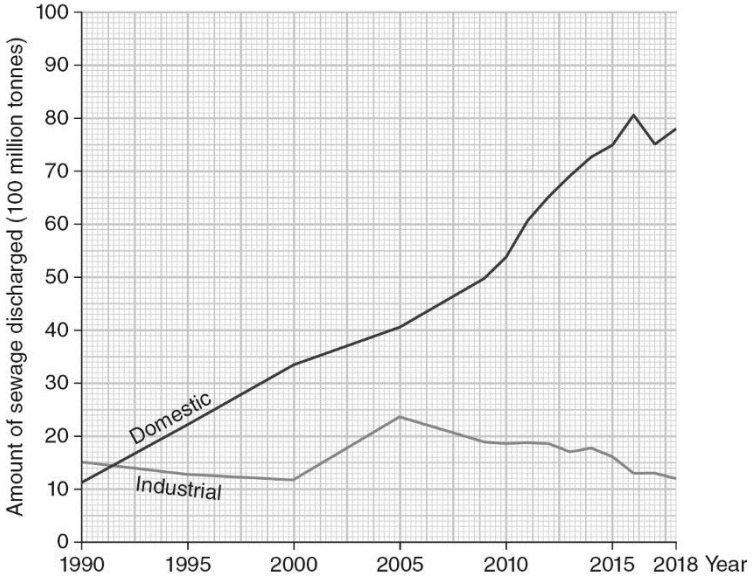


Table 4b

	Zhaoqing	**Dongguan**
Population (million)	4.19	8.46
Gross industrial output value (million RMB)	3,123	21,562

Figure 4c



(a) Refer to Figure 4a and Table 4b.

(i) Describe the spatial pattern of water quality of rivers in the ZDR. Support your answer with evidence. (4 marks)

(ii) Explain the answer in question (a)(i). (4 marks)

(iii) Explain the adverse socio-economic impacts brought by the water quality of rivers in the ZDR mentioned above. (4 marks)

(b) (i) Refer to Figure 4c. Describe the trend in the amount of sewage in the period shown. (2 marks)

(ii) *The policy of 'emptying the cage and letting the right birds in' has been adopted by the Guangdong provincial government since the end of the 2000s.*

Discuss how the above policy has contributed to the trend in the amount of sewage shown in Figure 4c. (4 marks)

Section E: Answer ONE question from this section. Each question carries 12 marks. (10%)

Elective: Dynamic Earth

5. Describe how erosion shaped the physical landscape of Hong Kong. Discuss the significance of climate and geology in affecting erosion in Hong Kong. (12 marks)

Elective: Weather and Climate

6. Describe the climatic variations from south to north in East China. Evaluate the influence of monsoon system on such variations. (12 marks)

Elective: Transport, Development, Planning and Management

7. Explain how transit-oriented development can help achieve socio-economic sustainability in Hong Kong. Discuss the feasibility of adopting transit-oriented development in old urban areas of Hong Kong. (12 marks)

Elective: Regional Study of Zhujiang Delta

8. Account for the formation of villages-in-the-city in large cities in the ZDR. Discuss whether redeveloping the villages-in-the-city may help improve the living conditions of the local residents. (12 marks)

END OF PAPER