Marking Schemes

Paper 1 Section A

Question No.	Key	Question No.	Key
1.	D (91%)	21.	A (87%)
2.	D (37%)	22.	B (81%)
3.	B (47%)	23.	D (75%)
4.	B (53%)	24.	C (94%)
5.	D (48%)	25.	B (64%)
6.	B (87%)	26.	A (67%)
7.	D (61%)	27.	C (50%)
8.	A (87%)	28.	C (84%)
9.	B (47%)	29.	A (93%)
10.	B (54%)	30.	A (30%)
11.	C (93%)	31.	D (44%)
12.	B (56%)	32.	C (21%)
13.	D (96%)	33.	A (83%)
14.	A (78%)	34.	D (66%)
15.	C (80%)	35.	B (80%)
16.	C (29%)	36.	C (71%)
17.	B (73%)	37.	D (84%)
18.	C (63%)	38.	A (71%)
19.	A (25%)	39.	A (25%)
20.	D (83%)	40.	C (41%)

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

This document was prepared for markers' reference. It should not be regarded as a set of model answers.

Candidates and teachers who are not involved in the marking process are advised to interpret its content with care.

Section B

Question 1		Marks
 (a) - coastal areas mainly along destructive plate boundaries mainly at subduction zones linear pattern mainly in the Circum-Pacific Belt 		1 1 1 1 1 (3)
(b) (i) Similarities: - both are located near plate boundaries - both are caused by earthquake - both are caused by stress accumulatio - both with large scale disturbance/ disp	n/ rocks fracture	1 1 1
Differences: X - close to plate boundaries/ reverse	- close to transform faults/ crustal rocks	1+1
fault/ plate collision	slide past each other	
- compressional force	- shear/ lateral force	1+1
- epicentre at seafloor	- epicentre on land	1+1
 vibration of seafloor/ submarine earthquake/ displacement of seafloor 	- shaking causes landslide/ large amount of debris falls into bay	1+1 (6)
(ii) - close to epicentre - high magnitude of earthquake - large amount of debris moved downwa - located in narrow/ closed bay - limited the dispersion of wave energy	ards	1 1 1 1 1 (2)
(c) (i) - higher at X/ lower at Y		1 (1)
 flat relief at X/ rugged relief at Y accessible at X/ remote at Y densely populated at X/ sparsely popul settlement/ built-up area at X/ recreation 		1 1 1 1 (2)

(c) (ii) Marking criteria:

Notes:

- 1. Award appropriate marks according to the QUALITY and DEPTH of arguments; do not count the number of points only.
- 2. Max. marks should be given to good quality answers with well-elaborated arguments and demonstrating good knowledge on relevant geographical concepts.
- Evaluation on 'land use zoning' can be either effective or ineffective, or both

(Max. 4)

- Arguments of 'effective': e.g. buffer zone established, high risk facilities suspended
- · Arguments of 'ineffective': e.g. high cost, technical infeasibility
- 2 marks for any argument with description and elaboration
 - Example: Restricting the development of high risk facilities/ nuclear plants/ oil depots in coastal areas, loss from secondary hazards can be minimised.
- 1 mark for any argument with description only
 - Example: Restricting the development of high risk facilities/ nuclear plants/ oil depots in coastal areas.

)ues	stion 2				M
(a)	(i)	 velocity increases from sites 1 to 4/s velocity drops from sites 4 to 5 then increases again from sites 5 to 7 	ites 1 to 7		1 1 1
	(ii)	Sites Reasons for changes in velocity	Map evidence	Remarks	
		1 to 4 5 to 7 - large amount of water collected higher discharge	 many tributaries tributaries join at sites 3/4/7 confluence point at site 4 	Max. 3 marks	1+1 1+1 1+1
		4 to 5 - river water used for irrigation - lower discharge	 presence of pumping station presence of farmland 	Max. 3 marks	[+] [+]
		 discharge increases/ high discharge greater/ large river energy/ velocity strong erosion e.g. abrasion/ hydraulic action lateral erosion more transportation especially strong at concave/ outer ban 	<u>k</u> of meander		1 1 1 1 1 1 1 (3
((iii)	Favourable physical condition			
		- at lower course of river	- < 20 metres/ contour li spaced/ river entering the s mouth		1+1
	-	gentle gradient	- contour lines widely spaced		1+1
	-	large amount of load	- joining of tributaries		1+1
		lower velocity at convex/ inner bank of river	- presence of meander/ windin	g river	1+1
	_	lower velocity/ flocculation			

Question 3			Marks
(a) (i)	 Low density residential land u. mainly concentrated in the real land u. along the coast far away from highway/ M? proximity to open space/ gr 	north/ northwest	1 1 1
	Commercial land use: (At leas - concentrated in the south/se - proximity to roads/ highway - adjacent to high density res	outheast y/ MTR station/ railway station	1 1 1 (3)
(ii)	 pleasant scenery/ higher pro- reduces noise pollution from improves air quality/ fresh a Commercial land use: (At least high accessibility attracts customers/ high customers/ convenient for employees to 	n highway hir t 1; must refer to description above) comer flow	1 1 1
	- serves the residents nearby		1 (4)
	tional advantage (At least 1) her accessibility	- area X closer to North Lantau Highway/ Tung Chung Line/ area Y far away from highway/ railway line	1+1
- bet	ter view	- area X at wider open sea/ area Y at narrower bay	1+1
Si	ite advantage (At least 1)	Map evidence	
- less	s ecological impact/ lower logical value/ less vironmental damage	- no mangrove (swamp/ mud-flat/ estuary) in area X/ presence of mangrove (swamp/ mud-flat/ estuary) in area Y	1+1
	water pollution	- area X at wider open sea/ area Y at narrower bay	1+1
- larg	ger space for reclamation	 area X farther away from airport/ area Y closer to airport; or area X at wider open sea/ area Y at narrower bay 	1+1 (6)

(c) Marking criteria:

Notes:

- 1. Award appropriate marks according to the QUALITY and DEPTH of discussion; do not count the number of points only.
- 2. Max. marks should be given to good quality answers with well-elaborated arguments and demonstrating good knowledge on relevant geographical concepts.
- Candidates should refer to the following perspectives when discussing whether the land use planning of area X aligns with the principles of sustainable development:

(Max. 5)

- economic: economic development, employment opportunities, diversification in economy
- social: social facilities and services, quality of life, protection on the right of equal access to resources
- environmental: level of pollution, open space
- 2 marks for discussion of any perspective with detailed description and explanation
 - Example:

The planning of area X aligns with the principles of sustainable development: high percentage of subsidised housing, providing large amount of low-rent housing and protecting the housing right of the low-income class.

- 1 mark for discussion of any perspective with brief description only
 - Example:

The planning of area X aligns with the principles of sustainable development: high percentage of subsidised housing, providing large amount of low-rent housing.

- No marks for direct copying of information from Table 3b only

Que	stion 4		Marks
(a)	(i)	$4300000\mathrm{km}^2 \sim 5200000\mathrm{km}^2$ (No unit of area: 1 mark)	2 (2)
	(ii)	decreased by/ minus (-) 27.78% / 27.8% / 28% to 40.28% / 40.3% / 40%	1 (1)
(b)	(i)	- amount of global carbon dioxide emissions <u>increased</u> while area of sea ice extendecreased	t 1 (1)
		 carbon dioxide is a kind of greenhouse gases blocks/ absorbs long wave radiation/ terrestrial radiation heat is trapped in the atmosphere/ counter radiation/ blanketing effect greenhouse effect is intensified rise in global air temperature/ global warming 	1 1 1 1
		- melting of sea ice	1 1 (5)
	(ii)	Positive impact: (At least 1) - shorter sea transport route/ more/ new sea transport routes/ favours navigation - reduces transport time/ cost - easy to exploit natural resources/ oil - favours fishing industry	1 1 1
		Negative impact: (At least 1) - reduces habitat of polar bears - reduces hunting ground for natives/ reduces food supply/ threatens livelihood of natives - drifting ice blocks affect shipping safety - transportation on ice surface disrupted	1 1 1 1 (5)
e)	Notes: 1. Awa cou 2. Max	ard appropriate marks according to the QUALITY and DEPTH of arguments; do not at the number of points only. It marks should be given to good quality answers with well-elaborated arguments and constrating good knowledge on relevant geographical concepts.	
	ArguArguconsi2 ma	nation on 'international cooperation' can be either effective or ineffective, or both ments of 'effective': EU countries cooperate; technology transfer; financial assistance ments of 'ineffective': some countries do not cooperate; economic concerns; political deration rks for any argument with description and elaboration	(Max. 4)
	<i>en</i> - 1 ma	cample (Ineffective): Less developed countries are reluctant to cooperate as reduction in nission will hinder their economic development. The for any argument with description only the formula (Ineffective): Less developed occupations are reluctant to cooperate.	

Section C

Question 5

Account for the major factors affecting the spatial distribution of the iron and steel industry in China before 1978. Explain how the 'Reform and Opening-up' policy has changed the spatial distribution of iron and steel industry in China since 1978.

Description & explanation 6 Explanation 6

Notes:

- 1. Award appropriate marks according to the QUALITY and DEPTH of discussion; do not count the number of points only.
- 2. Max. marks should be given to good quality answers with well-elaborated arguments and demonstrating good knowledge on relevant geographical concepts.
- 3. Award appropriate marks to relevant and reasonable answers not included in this marking scheme.

Performance of Candidates	Marks
Describe and explain the major factors affecting the spatial distribution of the iron and steel industry before 1978	y in Chin:
 Demonstrate comprehensive knowledge on the major factors affecting the spatial distribution of the iron and steel industry in China before 1978 clear and well-organised description of the major factors affecting the spatial distribution of iron and steel industry in China, such as raw materials, energy resources, government policy, etc. clear and logical explanation on the relationship between the spatial distribution of iron and steel industry in China and the major factors Major steel centres and their physical/ human conditions, e.g. Anshan, Urumqi, Changjiang Pingyuan Extensive and accurate use of geographical terminology 	6
 Demonstrate adequate knowledge on the major factors affecting the spatial distribution of the iron and steel industry in China before 1978 Adequate examples Accurate use of geographical terminology 	3 – 5
 Demonstrate preliminary knowledge on the major factors affecting the spatial distribution of the iron and steel industry in China before 1978 Few or no examples Absence or inaccurate use of geographical terminology 	1-2
Explain how the 'Reform and Opening-up' policy has changed the spatial distribution of iron industry in China since 1978	and stee
 Coherent, logical and in-depth explanation on how the "Reform and Opening-up" policy has changed the spatial distribution of iron and steel industry in China since 1978 "Reform and Opening-up" policy: opening-up policies: special economic zones, government interventions, trade policy (e.g. relaxing restrictions on trade barriers)/ attracts foreign investment changes in factors affecting iron and steel industry: production flexibility, coastal advantages, infrastructure and technology (e.g. scrap iron, bulk carriers), market-oriented, local market changes in spatial distribution of iron and steel industry: coastal development Examples of newly developed iron and steel centres, e.g. Baoshan steel centres Extensive and accurate use of geographical terminology 	6
 General explanation on how the "Reform and Opening-up" policy has changed the spatial distribution of iron and steel industry in China since 1978 Adequate examples Accurate use of geographical terminology 	3-5
Superficial explanation on how the "Reform and Opening-up" policy has changed the spatial distribution of iron and steel industry in China since 1978 Few or no examples Absence or inaccurate use of geographical terminology	1-2

Question 6

How does the physical environment cause high risk of famine in the Sahel region? Evaluate the effectiveness of biotechnology in lowering the risk of famine in the Sahel region.

Explanation	6
Evaluation	6

Notes:

- 1. Award appropriate marks according to the QUALITY and DEPTH of discussion; do not count the number of points only.
- 2. Max. marks should be given to good quality answers with well-elaborated arguments and demonstrating good knowledge on relevant geographical concepts.
- 3. Award appropriate marks to relevant and reasonable answers not included in this marking scheme.

Generic Marking Guidelines	V
Performance of Candidates	Marks
Explain how the physical environment causes high risk of famine in the Sahel region	
• Demonstrate comprehensive knowledge of how the physical environment causes high risk of famine in the Sahel region	
 Answers may include some of the following with explanations: 	
- climatic factors and impact of climate change	
- soil	_
- vegetation	6
- drainage	
Explanations on environmental factors must be related to the high risk of famine	
Answers that list out points without explanation should not reach this band	
Extensive and accurate use of geographical terminology	
Demonstrate adequate knowledge of how the physical environment causes high risk of famine in the	
Sahel region	3 – 5
Accurate use of geographical terminology	
Demonstrate elementary knowledge of how the physical environment causes high risk of famine in	
the Sahel region	1-2
Absence or inaccurate use of geographical terminology	<u> </u>
valuate the effectiveness of biotechnology in lowering the risk of famine in the Sahel region	
Coherent and logical evaluation on the effectiveness of biotechnology in lowering the risk of famine in the Sahel region	
Biotechnology and hybrid crops improve quality and quantity of farm outputs because these crops are more resistant to drought, alkaline soil and pest, leading to higher yield and more food supply	
The effectiveness is undermined as:	
- lack of capital and technology for the development of biotechnology and introducing hybrid crops	6
- corruption and wars also cause high risk of famine	
- food produced with biotechnology by large enterprises and companies may be export-oriented	
- farms may be changed to the growing of cash crops	
Extensive and accurate use of geographical terminology	
Appropriate evaluation on the effectiveness of biotechnology in lowering the risk of famine in the Sahel region	3 – 5
Accurate use of geographical terminology	
Brief description of biotechnology in lowering the risk of famine in the Sahel region	
Absence or inaccurate use of geographical terminology	1 – 2
	Max. 12
	111011. 12

Question 7

Describe and explain the negative socio-economic consequences of large-scale deforestation in tropical rainforests. Discuss the roles of more developed countries in the deforestation of tropical rainforests.

Description & ex	planation 6
Discussion	6

Notes:

- 1. Award appropriate marks according to the QUALITY and DEPTH of discussion; do not count the number of points only.
- 2. Max. marks should be given to good quality answers with well-elaborated arguments and demonstrating good knowledge on relevant geographical concepts.
- 3. Award appropriate marks to relevant and reasonable answers not included in this marking scheme.

Generic Marking Guidelines Performance of Candidates	Marks
Describe and explain the negative socio-economic consequences of large-scale deforestation i rainforests	п сгоріса
 Demonstrate comprehensive knowledge of the negative socio-economic consequences of large-scale deforestation in tropical rainforests Answers may include some of the following areas with explanations and details: food supply cultural and health medicine economy Answers that list out points without details and explanation should not reach this band Some examples should be included 	6
Extensive and accurate use of geographical terminology	
 Demonstrate adequate knowledge of the negative socio-economic consequences of large-scale deforestation in tropical rainforests Accurate use of geographical terminology 	3-5
• Demonstrate elementary knowledge of the negative socio-economic consequences of large-scale	- 10
deforestation in tropical rainforests	1-2
Absence or inaccurate use of geographical terminology	
Discuss the roles of more developed countries in the deforestation of tropical rainforests	
 Coherent and logical discussion of the positive and negative roles of more developed countries in the deforestation of tropical rainforests Positive role: conserving the rainforests, reafforestation scheme funding and technology to help preserve rainforests effort of NGOs general public's support, e.g. using recycled paper Negative role: exploitation of rainforest resources, e.g. cattle ranching/ plantation/ mining/ transportation/ lumbering unfair trading with rainforest countries Extensive and accurate use of geographical terminology 	6
 Appropriate discussion of the roles of more developed countries in the deforestation of tropical rainforests 	3-5
Accurate use of geographical terminology	
 Brief and general discussion of the roles of more developed countries in the deforestation of tropical rainforests 	1-2
Absence or inaccurate use of geographical terminology	