

Written Test – Marking scheme

Assignment 1 (8 marks)

Subject	Answer	Marks
1a	BRIC: Russia, India, China - 0.6 marks (0.2 marks each) LEDCs (Less Economically Developed Countries) – 0.4marks	1
1b	Any 3 of the following. 3 marks (1 mark each) The ten rivers in Source 1b are one of the longest rivers in the world and their catchment areas are among the most extended ones. As the source text states, the delivery ratio increases with the size of the river, meaning that these rivers have very high plastic delivery ratios. The rivers cross LEDCs or states with emergent economies that rely on polluting industries. Plastic is one of the cheapest and one of the most common materials and the high consumption needs of these numerous populations determine great plastic waste quantities. These countries don't have effective and comprehensive waste management plans and strategies, resulting in a poor management of the plastic waste in catchment areas.	3
1c	Any 4 of the following. 4 marks (1 mark each) <ul style="list-style-type: none"> - the banning of imports of recyclable waste from overseas (China); - the sorting of the waste; - the recycling of the plastic waste; - the banning of disposable plastic items (bags, bottles etc.); - educational activities related to the protection of water resources; - programmes to increase the awareness regarding plastic pollution. etc.	4

Assignment 2 (8 marks)

Subject	Answer	Marks
2a	2	1
2b	the extension of the sand dunes over the village/sand storms Desertification is NOT a viable answer, since the area is already a desert. The characteristics of this environment (draught, wind erosion) are not viable answers, since they represent the normality.	1
2c	b) Kalahari Desert	1
2d	Deserts are areas where the amount of rainfall is lower than 200-250 mm/year. – 0.5 marks Any 3 of the following. 1.5 marks (0.5 marks each) <ul style="list-style-type: none"> - high pressure area; - the lack of water vapors in the atmosphere; - no cloud formation conditions; - the shortage of surface water sources; etc. 	2
2e	Seif/longitudinal (linear type) sand dunes – 0.5 marks Definition: longitudinal, parallel sand dunes with slip faces on either side (associated with bidirectional winds), that extended for many km. – 0.5 marks	1
2f	The Harmattan wind/trade winds – 0.5 marks Wind direction represented by the red arrows. – 0.5 marks 	1
2g	the numerous wells at the periphery/the presence or water resources	1

Assignment 3 (8 marks)

Subject	Answer	Marks										
3a	Any 2 of the following for each category. 2 marks (0.5 marks each) <table border="1" data-bbox="411 488 1682 678"> <thead> <tr> <th data-bbox="411 488 1045 521">The Heart of Lake</th> <th data-bbox="1045 488 1682 521">The Kangbashi District</th> </tr> </thead> <tbody> <tr> <td data-bbox="411 521 1045 581">Less emissions of CO₂ (as no cars are used) /A better air quality</td> <td data-bbox="1045 521 1682 581">CO₂ emissions/A lower air quality</td> </tr> <tr> <td data-bbox="411 581 1045 613">More O₂ provided by the extended green spaces</td> <td data-bbox="1045 581 1682 613">A higher incidence of respiratory diseases</td> </tr> <tr> <td data-bbox="411 613 1045 646">A higher urban biodiversity</td> <td data-bbox="1045 613 1682 646">A lower urban biodiversity</td> </tr> <tr> <td data-bbox="411 646 1045 678">A less powerful urban heat-island effect</td> <td data-bbox="1045 646 1682 678">A more powerful urban heat-island effect</td> </tr> </tbody> </table>	The Heart of Lake	The Kangbashi District	Less emissions of CO ₂ (as no cars are used) /A better air quality	CO ₂ emissions/A lower air quality	More O ₂ provided by the extended green spaces	A higher incidence of respiratory diseases	A higher urban biodiversity	A lower urban biodiversity	A less powerful urban heat-island effect	A more powerful urban heat-island effect	2
The Heart of Lake	The Kangbashi District											
Less emissions of CO ₂ (as no cars are used) /A better air quality	CO ₂ emissions/A lower air quality											
More O ₂ provided by the extended green spaces	A higher incidence of respiratory diseases											
A higher urban biodiversity	A lower urban biodiversity											
A less powerful urban heat-island effect	A more powerful urban heat-island effect											
3b	Any 2 of the following for each category. 2 marks (0.5 marks each) <table border="1" data-bbox="411 716 1682 938"> <thead> <tr> <th data-bbox="411 716 1045 748">Green city (the Heart of Lake)</th> <th data-bbox="1045 716 1682 748">Ghost city (the Kangbashi District)</th> </tr> </thead> <tbody> <tr> <td data-bbox="411 748 1045 781">a stronger sense of community</td> <td data-bbox="1045 748 1682 781">a feeling of aloneness</td> </tr> <tr> <td data-bbox="411 781 1045 813">a feeling of belonging</td> <td data-bbox="1045 781 1682 813">a feeling of isolation</td> </tr> <tr> <td data-bbox="411 813 1045 878">a more active lifestyle due to the extended green areas</td> <td data-bbox="1045 813 1682 878">a more sedentary prone lifestyle due to the extended concrete areas</td> </tr> <tr> <td data-bbox="411 878 1045 938">a more healthy lifestyle due to the extended green areas</td> <td data-bbox="1045 878 1682 938">a less healthy lifestyle due to the extended concrete areas</td> </tr> </tbody> </table>	Green city (the Heart of Lake)	Ghost city (the Kangbashi District)	a stronger sense of community	a feeling of aloneness	a feeling of belonging	a feeling of isolation	a more active lifestyle due to the extended green areas	a more sedentary prone lifestyle due to the extended concrete areas	a more healthy lifestyle due to the extended green areas	a less healthy lifestyle due to the extended concrete areas	2
Green city (the Heart of Lake)	Ghost city (the Kangbashi District)											
a stronger sense of community	a feeling of aloneness											
a feeling of belonging	a feeling of isolation											
a more active lifestyle due to the extended green areas	a more sedentary prone lifestyle due to the extended concrete areas											
a more healthy lifestyle due to the extended green areas	a less healthy lifestyle due to the extended concrete areas											
3c	Any 2 of the following. 2 marks (1 mark each) <ul style="list-style-type: none"> - the decrease of pollution level; - the betterment of access to the public facilities; - a more effective use of space; - the development of fair/equitable communities; - the use of green technologies; - the increase of the awareness regarding the conservation of the natural resources. etc. 	2										
3d	Any 2 of the following reasons. 2 marks (1 mark each) <ul style="list-style-type: none"> - the prices of the land in rural areas is significantly lower than the ones of the land in urban areas; - the newly constructed apartments are not affordable for most of the population; - the construction policy in China require that the developers who buy new plots of land from local governments start to construct even though the surrounding area is yet to develop; 	2										

	<ul style="list-style-type: none"> - the mismatch between the housing demand and the offer; - the unequal distribution of human resources, economic activities and housing. etc. 	
--	--	--

Assignment 4 (8 marks)

Subject	Answer	Marks
4a	d) the Atlantic Ocean (1) and the Pacific Ocean (2)	1
4b	the Panama Canal	1
4c	Panama City/Ciudad de Panama	0.5
4d	Any 3 of the following. 1.5 marks (0.5 marks each) <ul style="list-style-type: none"> - the location is in an isthmus (a narrow strip of land); - the lowest elevation in the area; - the presence of Gatun Lake; - any reason referring to: local resources, labor force, political reasons, strategic reasons. etc. 	1.5
4e	Any 2 of the following. 2 marks (1 mark each) <ul style="list-style-type: none"> - the distance between the Atlantic and the Pacific Ocean is shorter; - by using this way of communication, the North-West Passage or the Magellan Strait route are avoided; - the use of this communication way is more economical; - the use of this communication way is safer; - the use of this communication way is less time consuming. etc. 	2
4f	Any 4 of the following. 2 marks (0.5 marks each) <ul style="list-style-type: none"> - during the wet season Gatun Lakes accumulates excessive rainwater; - during the dry season Gatun Lake has a shortage of water; - the mean sea level at the Pacific side is about 20 cm higher than the one at the Atlantic side because of water density differences and weather differences; - lake silting/colmatation; - forced species migration; - inadequate protection of natural areas (e.g. mangrove forests); - massive deforestation; - industrial waste and sewage. etc. 	2

Assignment 5 (8 marks)

Subject	Answer	Marks
5a	b) an ageing population	1
5b	Young population in Sweden: 22.6%	0.5
5c	The narrow base of the population pyramid of Sweden indicates a low birth rate. – 0.5 marks The low values of the birth rate are correlated with a high level of social and economic development, with the emancipated status of women, with a high level of education, with the widespread use of contraceptive methods, with the reduced interest to raise children, with a higher age of women at their first pregnancy or at marriage time etc. – 0.5 marks (at least 2 factors)	1
5d	Any 2 of the following. 1 marks (0.5 marks each) <ul style="list-style-type: none"> - the implementation of working family tax credits that support women/men who go back to work after their child was born; - tax incentives for families with children; - flexible work schedules for parents of new born babies; - consistent child support for new borns; - a wide range of care giving facilities for babies and children. etc. 	1
5e	Old population in Japan: 27.3%	0.5
5f	Any 2 of the following. 2marks (1 mark each) <ul style="list-style-type: none"> - a high life expectancy for both men and women (over 80 years); - quality medical services; - the maintenance of a healthy lifestyle at all ages; - a healthy diet; - a high level of education; - cultural (traditional) background. etc. 	2

5g	Any 4 of the following impacts. 2 marks (0.5 marks each) <ul style="list-style-type: none">- increased pressure on medical services, nursing services;- contribution to population decline;- a higher age of retirement;- a higher dependency ratio;- problems related to the overburdened pension system;- increased taxes (required to sustain the pension system);- increased spending (the elderly have savings to spend, the so called grey pound);- the need for leisure activities for the elderly;- the migration of industries overseas (because of the workforce deficit);- a lower demand for schools and teachers. etc.	2
-----------	---	----------