
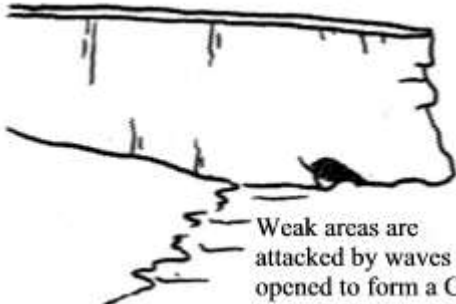






Annual Examinations for Secondary Schools 2014

FORM 4 GEOGRAPHY (GENERAL) MARKING SCHEME

QUESTION Number	Maximum Marks	Mark Allocation	Acceptable Responses
1	13		
1(a)	3	1 mark x 3	1. Mexico City 2. São Paolo 3. Kinshasa 4. Madras 5. Dhaka 6. Seoul
1(b)	4	1 mark for each Continent, Region or Country	The fastest growing cities are found in developing countries in the continents of Central and South America, Africa and Asia. <i>Any other relevant answers.</i>
1(c)	6	2 marks each for any 3 reasons	In cities there are: more job opportunities, more educational services, more medical facilities, more housing.
2	6		
2	6	1 mark x 6	Erosion; Freeze-thaw weathering; Chemical weathering; Biological weathering; Exfoliation; Deposition
3	11		
3(a)	4	1 mark for each label	<p>gorge</p> <p>hard rock/river</p> <p>waterfall</p> <p>hard rock/river</p>
3(b)	3	3 marks	The waterfall moved backwards as the river eroded the soft rock underlying the harder rock. The harder rock remained unsupported and collapsed. As the hard rock collapsed, the waterfall retreated.

3(c)	2	2 marks	
3(d)	2	1 mark for each point	<ul style="list-style-type: none"> • The force and pressure of the waterfall break up the rock at its base. • Pieces of broken rock further erode the plunge pool.
4	10		
4(a)	4	4 marks	<p>Sea arches are eroded by sea erosion/waves. Areas of weakness and joints are the first areas to be attacked by waves. As these joints grow larger, the arch is further weakened. Large pieces of rock collapse until eventually the whole arch collapses.</p>
4(b)	3	1 mark for drawing and 2 marks for labelling	 <p>Weak areas are attacked by waves and opened to form a CAVE</p>
4(c)	3	1 mark for drawing and 2 marks for labelling	 <p>As the roof of the arch is continually undercut it eventually collapses leaving an isolated STACK</p>

5	14		
5(a)	4	2 marks x 2	Artificial fertilisers are used to increase crop yield. Pesticides are used to kill pests that attack the crops.
5(b)	4	2 marks x 2	Excessive fertiliser and pesticides can infiltrate through the soil and rocks. If it reaches the aquifer, the water is contaminated. Once the water of the aquifer is contaminated it can be dangerous for flora and fauna as the chemicals pass through the food chain.
5(c)	2	2 marks	Organic farming relies on techniques such as crop rotation, green manure, compost and biological pest control. Organic farming uses natural fertilisers and pesticides but does not use manufactured (synthetic) fertilisers and pesticides.
5(d)	4	2 marks x 2	An advantage of organic farming for farmers is that the natural resources on the field such as soil and water are not contaminated and are therefore of good quality, thus yielding good quality crops. An advantage of organic farming for consumers is that they buy good quality and healthier crops without the risk of contamination by artificial chemicals.
6	17		
6(a)	2	1 mark each for any two	Rubber, pencil, paper, table, bag, clothes, clipboard, pencil case.
6(b)	2	1 mark each for any two	Trees, oil, water, iron, wool, leather, charcoal, and any other relevant raw materials.
6(c)	6	1 mark for each factor; 2 marks for explanation	Flat land makes factories cheaper and easier to build. Electricity is needed for the machinery in factories. Transport routes are needed to transport finished goods from factories to cities. Workers are needed to work the machinery and supervise the manufacturing process.
6(d)	5	1 mark each for any five	Xewkija Industrial Estate: 1 Mrieħel Industrial Estate: 4 San Ġwann Industrial Estate: 3 Bulebel Industrial Estate: 7 Hal Far Industrial Estate: 8 Marsa Industrial Estate: 5 Technopark, Mosta: 2 Smart City, Kalkara: 6

6(e)	2	2 marks for any one advantage	Being close to the port it is cheaper (or faster) for factories to import raw materials from other countries and to export manufactured goods to other countries.
7	14		
7(a)	4	2 marks for each sea	
7(b)	6	2 marks each for any three	<p>Power station: Power stations dump warm water in the sea killing or disrupting the natural life cycle of sea flora and fauna.</p> <p>Sewage from cities: Chemicals in sewage can be toxic and may poison, kill or lead to abnormal growth of sea life.</p> <p>Farming: Nitrates from fertilisers can lead to abnormal growth of algae which reduce oxygen in the sea thus threatening sea life.</p> <p>Aquaculture: Remains of food given to fish are deposited on the sea bed killing sea creatures that live there.</p> <p>Oil tanker: Oil spills and other waste from oil tankers can pollute the sea and therefore threaten sea creatures.</p> <p>Oil rig: Drilling can damage the sea environment and the extraction of oil can cause oil spills that can damage the habitats of sea creatures.</p>
7(c)	4	4 marks for any one	<p>Sewage treatment plants remove chemicals from sewage and turn sewage into clean water before being dumped into the sea. As a result there is more oxygen and fewer chemicals in the sea.</p> <p>Controlled use of pesticides means that the farmer uses just the right amount of pesticides that the plants need. This ensures that no dangerous chemicals leak into the rock and the aquifers and eventually into the sea.</p>

8	15		
8(a)	4	2 marks each for any two problems	<p>Air pollution is caused by the burning of fossil fuels.</p> <p>Visual pollution as the building of the power stations destroys areas of natural beauty.</p> <p>Natural habitats and wildlife are destroyed by the building of the power stations.</p> <p>Noise pollution is caused by the machinery of the power station.</p>
8(b)	5	1 mark x 5	<ol style="list-style-type: none"> 1. Solar energy 2. Wind energy 3. Solar energy 4. Wind energy 5. Wind energy
8(c)	6	2 marks each for any three reasons	<p>Renewable energy sources are infinite. They cannot be used up.</p> <p>Renewable energy sources do not produce greenhouse gases. Thus their use reduces global warming.</p> <p>Renewable energy is cheaper to produce as the source is naturally available.</p> <p>The price for producing renewable energy is less influenced by political conflicts.</p>