

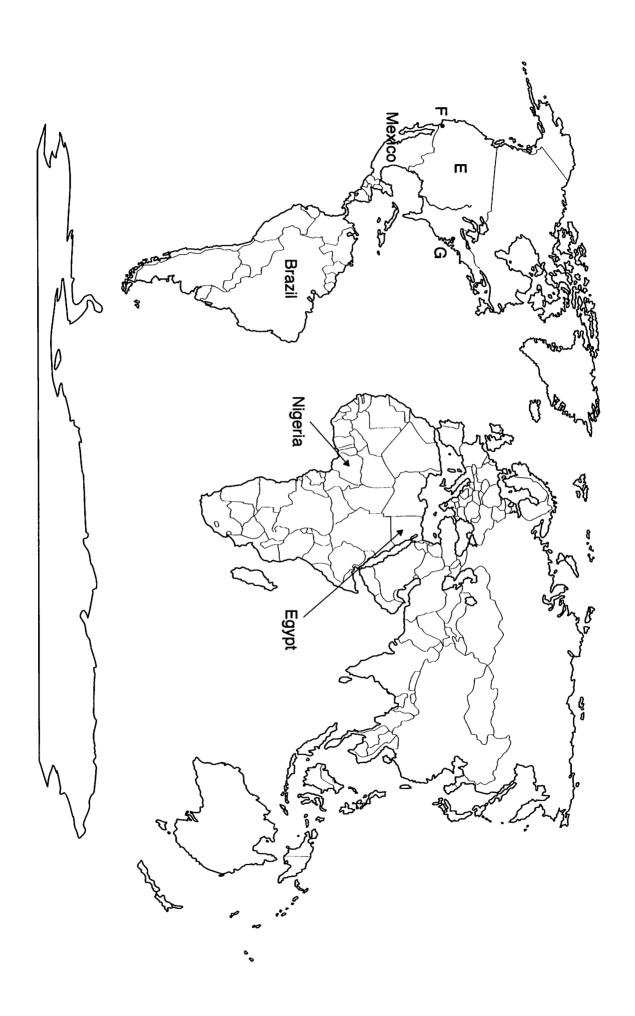
# COMMON ENTRANCE EXAMINATION AT 13+ GEOGRAPHY

# **MARK SCHEME**

This is a suggested, not a prescriptive, mark scheme.

Wednesday 7 November 2012





## **SECTION A: GLOBAL LOCATION**

Q.	Answer	Mark	Additional Guidance
1.	see world map	4	
2. (a)	Mississippi	1	
(b)	United States of America (USA)	1	
(c)	(North) Atlantic Ocean	1	
3. (a)	Africa	1	
(b)	Equator	1	
4.	F = Los Angeles	1	
	G = Washington DC	1	
5.	Rockies	1	Appalachians also acceptable

## **SECTION B: ORDNANCE SURVEY MAPWORK**

Q.	Answer	Mark	Additional Guidance
1.	A3062	1	
2. (a)	mast	1	
(b)	church with a spire	1	
3.	1.6 km	2	1 mark for 1.5/1.7 km
4.	south west	1	
5.	River Avon for water supply	2	any two
	bridging point		
	farmland/woodland		
	good transport links (river, Fosse Way)		
	defensive sites — hills		
6.	various to choose from but should contain accurate 6-figure grid reference	2 × 2	attractions and/or facilities acceptable

## **SECTION C: THEMATIC STUDIES**

### Rivers and Coasts

Q.	Answer	Mark	Additional	Guidance
1. (a)	the break-up of rocks in situ	1	L proces	
(b)			ened and crack en heated by th	
	skin forming a w	eak acid. This	kide from the a s is able to diss g joints and cra	solve
	chemical The effect o	The effect of plants and animals on rocks.		
		3	ellen i swa	
(c) (i)	location Y	1	2 1 1 1	
(ii)	deeper water less friction to volume leading to faster flowing water	2	1 mark only deeper wate	
(d)	traction/saltation	1		
(e)	gradually the waterfall retreats upstream, leavir a steep-sided GORGE  'cap rock'  hard resistant rock (this is easily eroded)  hard rock is undercut by erosion of the soft rock  eventually the overhang collapses due to lack of support  a by the force of water attack cracks in the rock  *abrasion – rocks in the water rub against the bed and banks  a plunge pool is formed by the force of water hitting soft rock below and deepened by			
	rocks rubbing against the bed (abra	4	better candid refer to gorg and say that retreat upste	e formation waterfalls

## **Earthquakes and Volcanoes**

Q.	Answer	Mark	Additional Guidance
2. (a) (i)	they form lines or belts	1	
(ii)	earthquakes occur at plate boundaries/margins	1	accept 'they follow plate boundaries'
(iii)	the 'Ring of Fire' refers to the large number of volcanoes located around the Pacific Plate boundary	1	
(b)	lava flows	2	any two
	pyroclastic flows		
	lahars		
	ash clouds		
	volcanic bombs		
	toxic gases		
(c)	it was a major earthquake - 7.0 magnitude	2	any two
	epicentre was close to the city		
	it struck at a busy time of the day when most people would have still been at work		
	Haiti is an LEDC and less able to offer protection to people and buildings		
	buildings were not built strongly enough to withstand the earthquake – not earthquake-proof		
	a shortage of rescue workers and medical facilities as Haiti is an LEDC		
(d)	quicker response from emergency services – MEDCs have more investment and equipment	4	candidates must explain two advantages clearly
	advanced emergency planning – national and local scales		
	education programmes for the public on how to prepare, react and cope with earthquakes, e.g. Japan's national earthquake day		
	earthquake-proof buildings designed to cope with seismic waves – MEDCs can invest in this technology		
	more medical care, hospitals and doctors available		

## **Weather and Climate**

Q.	Answer	Mark	Additional Guidance
3. (a) (i)	Ysbyty-Ifan has more rainfall throughout the year	2	for 2 marks, candidates need to give two clear differences in rainfall
	the highest rainfall for Ysbyty-Ifan is in the winter months, October to January.		figures between the two locations
	rainfall in Terrington St Clement is more evenly spread throughout the year.		
(ii)	prevailing wind brings moist air from the SW	3	1 mark for each point clearly explained
	this air is forced to rise over high land/mountains resulting in relief rainfall		
	there is less rainfall in the east due to the rain shadow effect		
(b)	altitude – an increase in altitude reduces temperature, approximately one degree for every 150 m in the UK	2	for 2 marks, candidates need to explain fully the chosen factor
	areas sheltered from the wind – warmer, e.g. in the lee of a hedge		
	aspect – south-facing slopes are warmer in the northern hemisphere due to direct exposure to the sun		
	north-facing slopes receive less sunlight (the reverse in southern hemisphere countries)		
	urban heat island effect – raises temperatures in city centres by several degrees		
	darker surfaces – absorb more sunlight energy, e.g. tarmac		
	proximity to water – e.g. a deep lake can warm nearby areas in the winter and cool these areas in the summer		

Q.	Answer	Mark	Additional Guidance
(c) (i)	higher temperatures in the west and lower in the east	2	the use of figures from the map will give the additional mark here
(ii)	higher temperatures in the west due to the warming influence of the sea water and the North Atlantic Drift ocean current	1	
(iii)	higher temperatures in the south and lower in the north	2	the use of figures from the map will give the additional mark here
(iv)	higher temperatures in the south due to the effect of latitude – closer to the Equator	1	more able candidates might refer to the urban heat island effect around London
Economi	c Activity		
4. (a)	724 605 = Fosse Farm = primary	2	
	785 641 - museum = tertiary		
(b) (i)	in Ghana more people are employed in the primary sector, e.g. farming	2	1 mark for each difference
	Ghana has fewer people employed in the secondary sector		
	the UK has more than twice the proportion of people employed in the tertiary sector		
(ii)	Ghana is an LEDC so more people are involved in primary industries, e.g. farming, forestry, and mining – they export these products to earn income	2	1 mark for a valid point, with an additional mark for explanation/ extension
	fewer people are employed in the secondary sector as Ghana is still developing its manufacturing base and still imports a high % of manufactured goods		
	The UK has highly mechanised primary and tertiary sectors and being a richer country can support a large service sector		
(c) (i)	advantages: jobs/income/investment in the local economy, e.g. new roads and infrastructure/improvements in quality of life/development of the country's economy	2	2 marks for two examples
(ii)	disadvantages: pollution/environmental damage/deforestation/loss of wildlife/destruction of tribal areas	2	

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## **Environmental Issues**

Q.	Answer	Mark	Additional Guidance
5. (a) (i)	Pembrokeshire Coast – 4.2 million	1	
(ii)	Peak District – £659 million	1	
(iii)	two from:	2	
	footpath erosion/littering/traffic congestion/noise pollution/disturbance of wildlife and ecosystems/high visitor numbers in honeypot sites		
(b)	depends on the case study but can include a national park, AONB, SSSI, managed woodland area and National Trust land	2	
(i)	to protect landscape/wildlife habitat		reasons need to be clear and specific for 2 marks
	to reduce land-use conflict		and specific for 2 marke
	to avoid overcrowding in particular areas		
(ii)	depends on case study	4	
	two clear management examples need to be given		
	designated footpaths		any two but candidates need to show an
	car parks		understanding of how these methods are
	picnic and BBQ areas		sustainable for 2 marks
	fenced-off areas to allow regrowth of vegetation		
	woodland management - coppicing		
	landscape flora and fauna protected from damage and pollution		
	ongoing maintenance of signage and facilties enables the area to receive visitors all year round and year on year		
Total		80	