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Mark Scheme (Results)
Summer 2007

GCE O Level

GCE O Level Geography (7209) Paper 1

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Geography 7209/01

Q1. (a)(i) 1.Russian Federation or Low Income Countries 1m 2. Accept 550 – 650 1m

(ii) 1.Accept any two from; technical changes; alternative energies; publicity/education; political will 2m

2. Accept any two from; growth of economy; population/demand growth; increasing energy supplies; lack of attention to controls 2m

(b)Reserve 2m for each of people and environment; award remaining mark where deserved. Allow references to: sea-level change/flooding; climate change; consequences on people and economic activities. 1m available for specific example, if used. 5m

(c)Allow references to likes of; scale of problem; limited resources; education/expertise; population growth; infrastructure difficulties 5m

(d)Level one; 1-3m General difficulties mentioned; not necessarily reference to statements.

Level two; 4-6m Some focus on management of global warming with some reference to statements, possibly implicit.

Level three 7-9m Clear focus on difficulties of management with reference to conflict of statements. 9m

TOTAL 25 MARKS

Q2. (a)4 locations identified on map 4x1m 4m

(b)(i)Allow 18-19 1m (ii)Seasonal 1m; winter maximum 1m 2m

(iii)Trade winds/off-shore/summer/low rainfall 2m; westerlies/on-shore/winter/higher rainfall 2m. 4m

(iv)Allow references to; increased frequency of drought conditions; aggravated by human activity e.g. removal of vegetation cover. 5m

(c)Level one; 1-3m Identifies and describes relationship between distance and range of temperature

Level two; 4-6m Adequate description and some basic understanding of factors responsible

Level three; 7-9m Describes relationship, poss with reference to anomalies, and is able to account for such. 9m

TOTAL 25 MARKS

Q3.(a)(i)1.Organic matter 1m 2.Either air or component 4 1m

(ii)Water 1m

(iii)Flora / fauna 2m

(iv)Reserve 4 half marks for statements of differences e.g. more water, and/or percentage figures. 3m for reasons e.g. soil often waterlogged; climate too cold/wet to allow decomposition of vegetation. Comprehensive answer not required for max.
5m

(b)(i)Marks for comparisons. Quicker/slower; greater/lesser; statistical evidence. 3m

(ii)Credit references to texture/structure and consequences on water movement. E.g. sands larger micro pores; rapid infiltration capacity; lower retention rate deserves full marks. 3m

(c)Level one 1-3m Statement/s of some advantages and/or disadvantages. Named scheme.

Level two 4-6m Named scheme. Fuller general description of advantages/disadvantages.

Level three 7-9m Observations which clearly relate to named scheme. Effect on soils

TOTAL 25 MARKS

Q4. (a)(i)B 1m (ii)Destructive 1m

(iii)2 marks for movement/consequences at each margin. 4m

(b)(i)Any 4 significant facets of global distribution. For max marks must give global view 4m

(ii)Accept references to the likes of; forecasting; technology; education; resources; infrastructure; location. For 5-6 marks must refer to different parts of the world. 6m

(c)Level one 1-3m Outline of some attractions of area/s and/or limitations of people. Poss. named area.

Level two 4-6m Named area/s. Reasons for people living in such areas despite the risks.

Level three 7-9m Clear focus on named areas.

TOTAL 25 MARKS

Q5.(a)(i)Precipitation 1m (ii)evapotranspiration or river discharge 1m

(iii)Award marks for observations which give some insight into meaning of term e.g. precipitation which reaches channel 1m; water reaching river via surface run-off/ throughflow/baseflow 1m; water not stored 1m; measured as velocity x cross sectional area 1m; measured as cumecs 1m 2m

(iv)Overland flow or surface storage -> overland flow 1m

(v)1.Understanding of term 1m; amplification 1m e.g. reference to infiltration capacity 2m

2.Understanding of term 1m; amplification 1m e.g. greater the permeability the faster the rate of infiltration and the greater its capacity 2m

(b(i)Marks for comparative observations. E.g. peaks/time. Allow 1m for comparative statistical evidence 3m

(ii)Any valid reasons to account for differences provided reference to same storm event e.g. vegetation cover; urbanisation 4m

(c)Level one; 1-3m Basic awareness of reasons for flooding; named river basin.

Level two 4-6m Named river basin; some valid explanation of flooding; possible attempt to explain ways of reducing risk

Level three 7-9m Explanation of flooding and attempts to reduce risk in specified river basin.

TOTAL 25 MARKS

Q6.(a)(i)Any two characteristics pertaining to shape; long, narrow, curved end 2m

(ii) Allow up to 3m for detailed explanation of long shore drift; annotated diagram may go to max. Additional mark/s for explanation beyond this e.g. reason for curvature; presence of sand dunes; development of marram grass 4m

(iii)Counteract long shore drift; prevent sand/deposits moving along shore; stabilise breach 1m

(iv) From; sheltered area; deposition of silt/mud; tidal; gentle/low energy waves 2m

(v)Accept any 3 valid reasons e.g. lack of stability; exposed; lack of infrastructure; economic limitations 3m

(vi)B/C is an area of headland and bays as opposed to lowland of spit. Permit any valid developments of this theme, even if a little speculative. 4m

(b)Level one 1-3m List/outline description of physical features which are attractive. Named coastline
Level two 4-6m Named coastline. More detailed description of features. Attempt at impact on environment
Level three 7-9m Detail relating specifically to named coastline. Consideration of impact of tourism on environment

TOTAL 25 MARKS

Q7.(a)(i)1012 1m (ii)cold front 1m

(iii) 1. 24.8 degrees 1m 2. E is in warm sector, with typically warm tropical air being 'squeezed' upwards, whereas D is behind cold front where cold air is undercutting. 3m.

(iv)1.Allow 16-24 1m 2.Spacing of isobars meaning difference in pressure gradient 3m

(v)North east 1m

(vi)System will move over F therefore changes in temp; pressure; wind speed/direction; cloud/precipitation/visibility. Any 5 valid observations form this list. Answer need not be comprehensive for max. 5m

(b)Level 1 1-3m Mainly description of land use on slopes.

Level two 4-6m Comparison of land use and attempt to account for some differences.

Level three 7-9m Comparison and insight into reasons for key differences.

TOTAL 25 MARKS

Q8. (a)(i)From likes of: strata/layers; bedding planes; laid down under water; relatively young; easily eroded; made up from broken down earlier rocks. No credit for 'made up from sediments' 2m

(ii)Accept likes of; essentially 3 components; some horizontal rocks; chalk is the youngest; some 'slipped'/tilted rocks; later deposits cover part. Surface chalk is eroded/weathered. 4m

(iii)Accept an answer which conveys the concept of mass movement/ 'slumping' though terminology not necessarily required. Any 3 valid observations which go some way to accounting for landform to max. 3m

(iv)Reserve 2m for each of describe and explain. Allow references to both pastoral and arable farming though explanation likely to focus on more conventional sheep rearing. 6m

(b)(i)Named area of Carboniferous Limestone 1m

(ii)Level one; 1-3m General description of some associated characteristics of physical landscape

Level two; 4-6m Description of some key characteristics with an attempt at explanation.

Level three 7-9m Focus on named area. Will incorporate some aspects of both surface and subterranean characteristics. Key process explained.

TOTAL 25 MARKS