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Cambridge Assessment International Education
Cambridge International General Certificate of Secondary Education

GEOGRAPHY **0460/22**

Paper 2 **October/November 2017**

MARK SCHEME

Maximum Mark: 60

Published

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<table>
<tr><th>Question</th><th>Answer</th><th>Marks</th></tr>
<tr><td>1(a)(i)</td><td>(marked) footpath,</td><td>1</td></tr>
<tr><td>1(a)(ii)</td><td>Tomasgrovi,</td><td>1</td></tr>
<tr><td>1(a)(iii)</td><td>916 (m),</td><td>1</td></tr>
<tr><td>1(a)(iv)</td><td>600 (m),</td><td>1</td></tr>
<tr><td>1(b)</td><td>
<table>
<tr><th></th><th>Square 6 316 at Færes-fjellet</th><th>Square 6 416 at Grønahorgi</th><th>Both these areas</th><th>Neither of these areas</th></tr>
<tr><td>lakes</td><td></td><td></td><td>✓</td><td></td></tr>
<tr><td>forest</td><td>✓</td><td></td><td></td><td></td></tr>
<tr><td>marsh</td><td>✓</td><td></td><td></td><td></td></tr>
<tr><td>glaciers</td><td></td><td></td><td></td><td>✓</td></tr>
<tr><td>land over 1 100 m above sea level</td><td></td><td>✓</td><td></td><td></td></tr>
</table>
More than 1 tick per row = 0, except for the first row where ticks in <u>both</u> the first two boxes and <u>all</u> of the first three boxes is allowed.
</td><td>5</td></tr>
<tr><td>1(c)(i)</td><td>Roesgrovi,</td><td>1</td></tr>
<tr><td>1(c)(ii)</td><td>road,</td><td>1</td></tr>
<tr><td>1(c)(iii)</td><td>cultivation,</td><td>1</td></tr>
<tr><td>1(c)(iv)</td><td>valley completed clearly steeper than rest of slopes but not dropping below 200 m, (use the ruler device along the 200 m line)</td><td>1</td></tr>
<tr><td>1(d)(i)</td><td>south east/east south east,</td><td>1</td></tr>
<tr><td>1(d)(ii)</td><td>1 550–1 750 <u>m</u>/1.55–1.75 <u>km</u>,</td><td>1</td></tr>
<tr><td>1(d)(iii)</td><td>568 m,</td><td>1</td></tr>
<tr><td>1(d)(e)</td><td>on/near cultivated land,
along/near roads,
in valley(s)/on valley side(s),
west facing slope,
on gentle(r)/avoids steep(er), (on flat = 0, but allow flat qualified)
on low(er)/avoids high(er)/200–500 <u>m</u>,
linear/dispersed/scattered/sparsely distributed, (nucleated spoils)
none/few in forest,
(more) in north,
in centre/none in east/west, (also allow SE, NE, SW and NW)</td><td>4</td></tr>
</table>

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Question	Answer	Marks
2(a)(i)	Denver,	**1**
2(a)(ii)	New York,	**1**
2(a)(iii)	New York,	**1**
2(a)(iv)	Denver,	**1**
2(b)	east lost population/–ve migration/people moved out/allow emigration, west gained population/+ve migration/people moved in/allow immigration, more migration in east/less migration in west, –534 737 in east and 110 408 in west, Allow Chicago and New York for east and Denver and San Francisco for west.	**2**
2(c)(i)	internal, emigration,	**1**
2(c)(ii)	natural increase/birth rate more than death rate/high birth rate/increased birth rate, international migration/migration from other countries/immigration, (not just people moving in)	**1**

Question	Answer	Marks
3	steep, V-shaped, narrow/gorge, no floor/flood plain, steep long profile/steep gradient, irregular long profile, many valleys/dissected, small valleys, tributary valleys/confluence of valleys, meandering/winding/zigzag valleys, (not river) spur(s), ridge(s), interlocking spurs = 2, dendritic pattern, cliffs, grass/trees/bushes/scrub, upper course/close to source (allow if referring to river), bare rock (in background)/rocks (in foreground, not channel), Contradictions spoil, e.g. gentle spoils steep.	**8**

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Question	Answer	Marks
4(a)(i)	13 ℃,	**1**
4(a)(ii)	23 ℃,	**1**
4(b)	17 mm,	**1**
4(c)	X,	**1**
4(d)	high(er) angle of the sun (in summer)/sun overhead in summer, rays more concentrated/rays pass through less atmosphere, longer days, little/less cloud cover,	**2**
4(e)	high pressure, descending air, warming prevents condensation, (development) stable air, offshore winds, cold ocean current, distance from the sea, rainshadow,	**2**

Question	Answer	Marks
5(a)(i)	area drained by a river/catchment area of river, divide between two drainage basins/boundary of a drainage basin, Allow if expressed as an area or highland.	**2**
5(a)(ii)	Ural, Syrdarya, Ili,	**2**
5(a)(iii)	Nura,	**1**
5(a)(b)	large(st) discharge, large(st) discharge in dry years, less dependent on other countries/lower flow from other countries/large(st) discharge excluding flow from other countries, large catchment/drainage basin, reservoir/dam/lake for storage,	**3**

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Question	Answer	Marks
6(a)	high(er)(est) in NW/WNW/W, low(er)(est) in E/ESE/SE, least/lower along coast/highest/higher inland (comparative needed), use of a figure to support any of the above statements max 1 (e.g. 1 700 kWh/(m^2) in SE),	**3**
6(b)	Germany lower, highest in Germany lower than highest in South Africa, lowest in Germany lower than lowest in South Africa, all of Germany lower than lowest in South Africa, Germany smaller differences/range of values, Germany increases to south + South Africa increases to NW/WNW/W, Or emphasis on South Africa.	**2**
6(c)	(For) SA has high solar radiation values, SA has higher solar radiation then Germany, area with cities/population has high solar radiation/1 650–2 100 kWh/(m^2) /more than Germany, (e.g. Johannesburg area) large area to generate solar power, (Against) area with few cities/population has high(est) solar radiation/over 2 100 kWh/(m^2), (north west) area with cities/population has low(est) solar radiation, (coast) (Either) discussion of transmission costs/distances,	**3**

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