



**Cambridge International Examinations**  
Cambridge International General Certificate of Secondary Education

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**GEOGRAPHY**

**0460/21**

Paper 2

**October/November 2016**

MARK SCHEME

Maximum Mark: 60

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**Published**

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- 1 (a) (i) mixed wood, [1]
- (ii) 181 (metres), [1]
- (iii) B/secondary/B5289, [1]
- (iv) (current or former) place of worship with spire/minaret/dome, [1]
- (v) Derwent,
- If more than one answer and one is wrong no credit given [1]
- (b) 3 km<sup>2</sup>, [1]
- (c) (i) steep,  
high/upland/mountain/hill/peak,  
(highest point) 931 m,  
lowest 70 – 90 m,  
small/V-shaped valley(s),  
many valleys,  
spurs,  
cliff,  
saddle/col/pass, [4]
- (ii) narrow/small/thin, [1]
- (iii) radial/3 stated flow directions, [1]
- (d) (i) 3750 – 4100 (metres), [1]
- (ii) 270°, [1]
- (iii) 26 3244, [1]
- (e) (i) by pass/ring road/around settlement/avoids settlement,  
north of settlement,  
avoid congestion in settlement,  
quick for through traffic,  
no need to demolish buildings,  
  
Allow settlement/built-up area/town/Keswick throughout. [2]
- (ii) avoids high/avoids steep/keeps flat/keeps gentle/keeps low,  
avoids lake,  
avoids marsh,  
avoids flooding,  
bridge point of river,  
avoids wood/forest, [2]
- (iii) cuttings and embankments, [1]

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- 2 (a) (i) Kenya,  
Tanzania,  
Uganda,  
South Africa,  
Madagascar,
- 2 countries = 1 mark. [1]
- (ii) some go direct/first time migrants,  
some (later migrations) via Fiji, [2]
- (iii) UK, [1]
- (b) (i) Bangladesh, [1]
- (ii) Pakistan, [1]
- (iii) increased, (allow for one country)  
increased as a total and as a percentage of the UK population/increased by 2.5% and  
1794 thousand,  
increased from all three countries, [2]

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- 3 (a)** beach,  
pebbles/shingle/rocks/rocky/boulders (on beach),  
bay/bayhead,  
crescent/curved (beach),  
point/headland,  
rocks in water,  
cliffs/steep slopes,  
(cliff) not vertical/sloping,  
bare rock (on cliff), [5]
- (b)** sandy beach,  
at low tide/exposed,  
sand dries out,  
onshore wind/wind from sea,  
wind blows sand inland/sand carried inland by wind/to Y, [3]

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- 4 (a) (i) grass/short vegetation/sparse vegetation/soft/flat/plain, [1]
- (ii) sharp rim to measure from precise area,  
 enclosed collecting vessel to prevent evaporation,  
 deep funnel to prevent rain splashing out,  
 underground/buried to stop evaporation/for stability,  
 (30cm) above ground to prevent rain splashing in/for standardisation,  
 standard diameter, [3]
- (b) (i) 10 °C and 18 °C, [1]
- (ii) 8 °C, Error carried forward.
- Deduct one mark in (i) or (ii) if units not given once. [1]
- (iii) 33, Error carried forward.  
 %, [2]

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- 5 (a) (i) 600km, [1]
- (ii) (mostly) in west, ) allow south west  
 (mostly) in south, ) if neither given  
 close to border,  
 none on coast,  
 widespread,  
 more than one/three/group around Poznan, [3]
- (b) (i) smaller sector  $20 - 23^\circ = 2$ ,  
 smaller sector  $18 - 25^\circ = 1$ , [2]
- (ii) 7, [1]
- (iii) 30/36(%), [1]

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- 6 (a) desert margins,  
both tropical and non-tropical,  
north/Mediterranean coast,  
Sahel/belt across tropical north Africa/10 – 20°N/belt south of Sahara,  
area in SW Africa,  
southern Madagascar, [2]
- (b) (i) produce meat/milk/food for growing population/refugees,  
dung fertiliser for poor soils/to improve soils,  
  
overgrazing/removal of vegetation by animals,  
soil erosion,  
trampling/compacting, [2]
- (ii) fuel for heating/cooking for growing population/refugees,  
  
exhaust/remove vegetation/deforestation/less wood,  
vegetation will not regenerate in dry climate/poor soils,  
smoke a health risk for local people, [2]
- (iii) produce food for growing population/refugees,  
  
overcropping,  
soil erosion,  
use up soil moisture,  
soil exhaustion/loss of fertility,  
  
One positive and one negative in each case. [2]