

**MARK SCHEME for the May/June 2014 series**

**0460 GEOGRAPHY**

**0460/21**

Paper 2, maximum raw mark 60

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

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- 1 (a) (i) Mazowe, [1]
- (ii) quarry/excavation, [1]
- (iii) huts (huts, staff quarters = 0), [1]
- (iv) orchard/plantation. [1]
- (v) wide tarred, [1]

If more than one answer given = 0.

- (b) (i) hospital/medical,  
sports field,  
sewerage (pond),  
dam/water supply,  
rifle range,  
country club,  
gliding (club),  
golf (course),  
post office,  
police station,  
district administration office/administration,  
railway station,

Mark best three answers. [3]

- (ii) mining/mine/quarry/quarrying,  
railway developed, e.g. links east and west/junction,  
road junction/route centre,  
services/service centre/facilities/amenities,  
centre of cultivation,  
water supply from dams/rivers,  
flat/gently sloping land, [4]

(c)

	Area in Fig. 2A	Area in Fig. 2B	Both these areas	Neither of these areas
flat or gently sloping		✓		
medium bush	✓			
power line				✓
track, cut line, game trail			✓	
high drainage density	✓			

More than one tick per row = 0 [5]

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- (d) (i) 284862/3, [1]
- (ii) 5200–5400 m, [1]
- (iii) 216°, [1]
- 2 (a) (i) between 5 and 200 m depth,  
coral needs light,  
coral needs to be covered with water (most of the time), [2]
- (ii) 37(ppt)/37–35(ppt)/35(ppt)/<37(ppt)/slightly saltier than average,  
coral needs normal salt content,  
coral can't live in very salty water, [2]
- (iii) on windward/windy side/side of prevailing wind,  
coral needs waves,  
coral needs oxygen,  
One mark for description and one mark for explanation.  
Ignore where points are written within the parts of the question. [2]
- (b) (i) B, [1]
- (ii) D, [1]
- 3 (a) (i) will not erupt again,  
no longer active,  
dead, [1]
- (ii) houses built close by,  
building on top,  
trees/vegetation growth, [1]
- (b) Labels:  
cone/conical,  
shield,  
gentle slopes,  
wide base  
crater  
double crater/secondary cone,  
  
Drawing (reserve one mark):  
steepest slope 15° or less,  
double crater/summit area correct, [4]

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- (c) made of different materials,  
 A (more) viscous lava,  
 A (more) silicic/acidic lava,  
 A lava at low(er) temperature,  
 A (more) explosive,  
 A lava solidifies (more) quickly,  
 A lava doesn't flow (as) far,  
 A old(er)/(less) eroded,

Allow emphasis on B. [2]

- 4 (a) smaller segment  $42^\circ-44^\circ = 2$ ,  
 smaller segment  $40^\circ-46^\circ = 1$ ,

correct use of key, [3]

- (b) (i) gain taxes/income/money, [1]

- (ii) employment,  
 more wealthy,  
 gain new skills, [1]

- (iii) increased demand for their goods/services,  
 skilled labour available, [1]

- (c) air pollution/smoke/gas from chimney/from building,  
*or*  
 breathing/health problems from smoke,  
 visual pollution/ugly buildings/pylons,  
 (perceived) health risk from overhead cables, [2]

- 5 (a) (i) 2–2.1 (million), [1]

- (ii) correct plot of 2.5 million, [1]

- (b) (i) decrease, [1]

- (ii) increase, [1]

- (c) 2000 younger range greater, } average age increases  
 2020 older range greater, }  
 decrease in younger range,  
 increase in older range,  
 little/no overall change,

(allow a variety of age ranges) [2]

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- (d) 0–14: India greater %/Italy smaller %,  
 15– 64: India smaller %/Italy greater %,  
 65+: India smaller %/Italy greater %,

Allow “more” and “fewer”.

Comparison necessary.

Allow by correct figures as below.

[2]

	India	Italy
0–14	30–32	13–15
15–64	63– 65	66– 68
65+	4– 6	18–20

- 6 (a) 10–15 cm,

[1]

- (b) (i) Cape Lookout/New Bern and (near) New York/Long Island/Dock/Mastic,

[1]

- (ii) N/NNW/NW,

[1]

- (iii) it decreased,

[1]

- (c) strong/heavy winds,

damage to nuclear plant/transformer,  
 trees down,  
 power cut,

heavy rain,

car swept away,  
 dock flooded,  
 river flooded,

One mark for hazard and one mark for its effect. Effect must link to weather hazard.

[4]