

CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International Advanced Subsidiary and Advanced Level

MARK SCHEME for the October/November 2015 series

0460 GEOGRAPHY

0460/23

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 October/November 2015 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.

Page 2	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – October/November 2015	0460	23

- 1 (a) (i) dip tanks [1]
- (ii) gravel/earth [1]
- (iii) hut(s) [1]
- (iv) 1 034 metres [1]
- (v) smooth rock, (allow hill) [1]
- (b) (i) river Shashani 36 to 39 mm from the western edge [1]
- (ii) other road 110 to 113 mm from the western edge
Allow correct position of road if other tracks marked too. [1]
- (iii) dam 87 to 89 mm from the western edge
- Use the ruler device to measure the answers.
Arrows should end within about 1cm of the profile. Measure to the point that the arrow projects to.
There should be no ambiguity.
Allow labels by names or question numbers. [1]
- (c) (i) 499 886 [1]
- (ii) hospital/health
District Administration Office/government/administration
police station/security
post office/postal
- 4 correct = 2
2/3 correct = 1 [2]
- (d) (i) 7 000 to 7 200 (metres), km = 0 [1]
- (ii) 245–248 [1]
- (e) meander(s)/bends, etc.
rapids
island(s)braids/splits and rejoins
flows south
variable width
tributary(ies)/confluence(s)
many small/3 main (tributaries)
gentle gradient/on gentle land [4]

Page 3	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – October/November 2015	0460	23

(f) under 1000 m [1]

(g)

	4 683	4 783	4 883	4 983
the highest drainage density			✓	
the highest density of settlement				✓

[2]

- 2 (a) (i) buttress roots/roots above ground/trunk wide at base (large roots = 0)
tall/long/20–30 m, (allow stems)
straight (trunks)
thin (trunks)
branch only at the top/branchless trunks/branch above 20 m/no low branches/leaves only above 20 m
broad/rounded crowns/tops
canopy/crowns overlap/continuous crowns [4]

- (ii) buttress roots give stability in the wet soils
tall because hot and wet all year/continuous/rapid growth
thin because hot and wet all year/continuous/rapid growth
straight/tall to compete for sunlight
branch only at the top where sunlight is available [2]

(b) (i) canopy [1]

- (ii) height at 20–30 metres
crowns are touching/continuous [1]

3 (a) (i) 1951–1980 [1]

- (ii) 1908/9
0.46/0.47 [2]

Page 4	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – October/November 2015	0460	23

(iii) overall increase/1880–2010

1880 to 1908/1910 decrease
 1908/10 to 1940/2 increase
 1940/42 to 1948/50 decrease
 1948/50 to 2002 increase
 no/little change/slight decrease since 2004

spike between 1935/6 and 1948/50

below mean 1880–1939
 above mean 1968/1977–2010
 around mean 1935–1980 (allow any dates between)

[4]

(b) sea level rise/increase the likelihood of floods

[1]

- 4 (a) in a valley/between mountains by mountains
 flat/gently sloping
 valley floor/flood plain
 lower slopes of valley side/mountain
 tributary valley/junction of valleys
 road junction/along road
 near a river/wet point

[4]

(b) mountainous/highland
 so cold/snow

steep slopes
 too steep for building/agriculture/roads = 2
 liable to soil erosion/will have thin soils

valley floor/near river likely to be flooded/marshy/used for agriculture

rocky areas/lack of soil
 so impossible to cultivate

lack of roads/inaccessible/isolated/remoter/far from towns

effect of aspect

[4]

Page 5	Mark Scheme	Syllabus	Paper
	Cambridge International AS/A Level – October/November 2015	0460	23

- 5 (a) (i) commercial – products for sale/profit
arable – crops [2]
- (ii) on gently sloping/flat land
large fields/farm
one crop
two stages of growth/different heights
rows/lines
intensive
plants on wires/poles/fences
pipe for irrigation [2]
- (b) (i) irrigation
dry/rain free season/summer [2]
- (ii) snow melt provides water/irrigation/alluvium [1]
- (c) plants are close together
all the same type of plant
no netting [1]
- 6 (a) smaller segment 146–9°
correct use of key [2]
- (b) (i) 25–27 [1]
- (ii) oil is a main source/important/a lot
gas is a main source/important/a lot
little coal
use renewables and non-renewables [2]
- (iii) Canada uses nuclear/Egypt does not
Canada more coal
Canada more hydro
Canada more renewables
Canada less oil
Canada less gas
Canada oil highest and Egypt gas highest

Accept the converse about Egypt.
Points need not be stated as a comparison. [3]