UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

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 must be read in conjunction with the question papers and the report on the examination.

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UNIVERSITY of CAMBRIDGE International Examinations

1 (a) (i) sugar,

(ii) factory, (Fcty = 0)

(iii) hospital,
power (sub)station/electricity,
mill,
temple,
well, (2 = 1 mark)

(iv) motorway,

(v) Lataniers (River),

(vi) coral/reef, [6]

(b) Use the on-screen ruler to measure as follows:

(i) 20-25mm from left side of section

(ii) 82-86mm from left side of section

(iii) 68-72mm from left side of section [3]

Each should be identified by a label and by a line or arrow. The label could be the name, e.g. "power line", or the number, e.g. (i).

Lines ending more than about 5mm from the profile = 0. If the line is within tolerance of 5mm but does not reach the profile, mark the point where it would meet the profile if extended.

If labels point to the base line allow max 1.

(c) (i) jetty,
docks/enclosed areas of water,
dry dock,
fishing port,
bulk sugar terminal,
harbour,
quay,
pier,

Extract from place names. [2]

(ii) <u>sheltered</u>/<u>natural</u> harbours,
provided by bays/inlets/headlands,
breaks in coral reefs,
flat land next to coast,
valleys/routes converge on coast, [3]

(d) **(i)** 9703, [1]

(ii) minor trigonometrical station, [1]

(e) high/hilly/mountain,
steep,
concave,
cliffs at top/located,
ridge,
spur,
heights 225m to over 500m (accept any heights within this range)
col, [4]

2 **(a)** by passes (or expressed differently),
M11,
A14,
A11,
railway, [2]

(b) **(i)** 17/18/19(km),
north east/north north east, [2]

(ii) outside/on outskirts of built-up area,
2-5km from CBD,

bus to CBD,
leave cars and travel to CBD,
to avoid congestion,
park and ride, [3]

(c) provision of (cheap) public transport,
cycleways,
walking routes,
(encourage) walking/cycling,
car sharing,
prohibition of cars,
congestion charging,
tidal flow,
bus lanes, [1]

3 (a) (i) Mid Atlantic Ridge,
East Pacific Rise,
Carlsberg Ridge,
Australian – Antarctic boundary,

(ii) Andes,
Caribbean,
African-Eurasian margin,
Himalayas,
West Pacific margins,
Indondesia,

If more than one given and none is wrong = 0 [2]

(b)

Statement	Tick
They are mostly found in the centres of plates	
They are mostly found at plate margins	✓
They are found at every plate margin	
They may be found in the centres of plates	✓
They are only found at plate margins	

[2]

(c) (i) sideways blast,
debris avalanche,
pyroclastic flow, [3]

(ii) follow valleys/rivers/previous landscape features, [1]

4 (a) (i) to avoid heating/cooling effects <u>of the ground</u>, [1]

(ii) to allow air circulation/ventilation, (to prevent overheating = 0)
to give shade temperature of air, [1]

(b) (i) wind <u>speed</u>, (speed and direction = 0) [1]

(ii) knots,
Beaufort Scale,
metres per second
miles per hour,
kilometres per hour, [1]

(c) (i) X cirrus,
Y cumulus/fair weather cumulus,
Z cumulonimbus,

If more than one given and one is wrong = 0 [3]

(ii) oktas/eighths, [1]

5 River
meander,
river cliff,
slip-off slope,
(almost) bankfull/full,
visible erosion on right/outer bank,
(almost) constant width,

Relief
flood plain,
flat/gentle,
some embankments,
valley sides,
steep slopes located, steeper = 0
terrace on right,

Vegetation
grass/trees,
no leaves,
bushes/scrub located,

Reserve one mark for each section [8]

Allow transfer between sections

6 **(a)** pie graph,
recognisable sketch of pie graph with one correct label, [2]

(b) line graph,
recognisable sketch of line graph with one correct label, [2]

(c) scatter graph,
recognisable sketch of scatter graph with one correct label,
(if a best fit line is shown it should not join the points) [2]

(d) radial graph,
recognisable sketch of radial graph with one correct label, [2]

In each part, mark the two points independently.