

**MARK SCHEME for the May/June 2012 question paper
for the guidance of teachers**

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

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Page 2	Mark Scheme: Teachers' version	Syllabus
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- 1 (a) (i) 206 (allow 208)
- (ii) power line
- (iii) (Rivulet) Lovard [1]
- (iv) track [1]
- (v) water tank [1]

(b)

Vegetation type	Relief
1 – tea	gentle sloping/flat/330 to 369 m/valley side
2 – riverine trees	flat/valley floor/low/lower/lowest/floodplain
3 – scrub	steep/north facing/high/higher/highest/any height between 370 and 440 m/hill/mountain

If the vegetation is wrongly identified, the description of the relief can still be credited.

One mark for each cell. [6]

- (c) NE → N → SE → N (accept any two so long as sequence/location is clear)
 zigzags/bends/hairpins/twists and turns/U turns/curves/ winding
 up and down
 crosses river
 crosses valley
 crosses ridge
 parallel to the slope/along the slope/across the slope/around the hill/keeps as level as possible
 avoids steep slope/avoids hill/avoids higher
 plantation/sugar
 scrub [4]

- (d) (i) westwards [1]

- (ii) dam extends to the west
 flat/level ground/gentle slope
 marsh
 cannot expand to south because of dam
 cannot expand to east because of hill/steep slope [2]

- (iii) reservoir (for water storage)
 steep slopes (for fast water flow)
 decrease in height/head of water
 road/valley access [2]

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- 2 (a) (i) Kilauea
- (ii) Nazca and South American
- (iii) Cocos/Nazca/Antarctic [1]
- (iv) North American and Eurasian/Europe [1]
- (b) along the uncertain plate boundary/rift valley
in East Africa/east of plate/named country
inland/on land [2]
- (c) (i) ash [1]
- (ii) blown by the wind [1]
- 3 (a) waterfall
spray
rapids
winding/meanders (river or valley)
interlocking spurs
V shaped valley
bare rock/rocky/pale/multicoloured rock/little vegetation/sparse vegetation
gorge/ravine/canyon
steep (sides)/cliffs
no/little floor (or flood plain)/river fills the floor/narrow valley
deep valley
scree
forest/coniferous/evergreen/pine trees [5]
- (b) gentle
waterfall/very steep
plunge pool
rapids/irregular
smooth
- Only accept labels in appropriate places. [2]
- (c) it would spoil the beauty of the area
expense
effect on plants/animals
earthquake possibility
specific effect on people upstream or downstream [1]

Page 4	Mark Scheme: Teachers' version	Syllabus	
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- 4 (a) (i) bar at 550 000
(ii) 215 000 – 224 000
- (b) (i) higher/high GDP/standard of living/wealthy countries/rich English language
Allow high GDP/person and high GDP rank = 2 [2]
(ii) no/distance has little/no effect
have almost the same number of migrants/slightly more in Kuwait [2]
- (c) line at 59% (or 41% if largest segment is to the right)
correct shading (larger segment block shading, smaller line shading)
Accept in any order [2]
- 5 (a) division between 80% and 18% – smaller segment 64–66°
shading correct (raw materials lines, labour etc. block shading – larger segment black)
Accept in any order. [2]
- (b) (i) university for well educated workforce/research
railway/expressway for transport of raw materials/components/products/
employees/customers
airport for transport of raw materials/components/products/employees/customers
cities for market [2]
(ii) components/raw materials/products are light in weight/low bulk/high value for bulk
only need small quantities of raw materials [1]
(iii) highly skilled workforce
qualified employees expect high wages
need to attract the best workers [1]
- (c) shortage of land in Singapore/more land available in Bangalore
cheaper land in Bangalore
cheaper labour costs in Bangalore
financial incentives offered by the Indian Government
access to large/growing market [2]

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- 6 (a) cannot measure it/difficult to measure
it was getting worse day by day/more leaked out
deep/1500 m
moved by currents/wind
spreading out/200 km [1]
- (b) (i) Louisiana
SE/onshore winds
nearest coast to the well
- Florida
carried by ocean current
SW winds/NE winds/onshore winds
- Mississippi
SE/onshore winds
near to the well
- Alabama
SW winds/SE winds/onshore winds
near to the well
- Cuba
carried by ocean current
NE winds/onshore winds
- Name = 1 Reasons = 2. [3]
- (ii) carried by ocean current
onshore/NE winds carry it on to the beach
(contradictions = 0) [2]
- (iii) people involved directly or indirectly with tourism e.g. hotel owners/coach drivers/
shopkeepers – loss of earnings/unemployment
- fishers – loss of earnings/unemployment
- tourists owning holiday homes – possibility of oil on beaches
- environmentalists – damage to ecosystems/wildlife/no repetition of the event
- Two different reasons required [2]