

## **MARK SCHEME for the October/November 2008 question paper**

**0460/02**

### **0460 GEOGRAPHY**

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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

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- 1 (a) (i) landing strip, no alternatives. [1]
- (ii) (sugar) factory, [1]
- (iii) sugar, [1]
- (iv) cultivation and (other) plantation, [1]
- (v) Sèche, [1]
- (vi) main B/B/B59, main alone = 0. [1]
- (b) (i) west to east. [1]
- (ii) meanders/bends, allow alternative wording. [1]
- (iii) 3200 – 3800 (metres). [1]

(c) 3 arrows correctly placed on topographic profile

Allowable tolerances, measured from left side of profile:

- (i) 18–22 mm,
- (ii) 117–120 mm,
- (iii) 146–150 mm.

Allow arrows labelled by number or name.

If arrows not within 5mm of profile max 2.

Not shown by arrows, e.g. by crosses, max 2. [3]

(d) 4 correctly placed ticks [4]

	Coastline <b>north</b> of Trou d'Eau Douce	Coastline <b>south</b> of Trou d'Eau Douce	Neither of these areas
Bays and river mouths		✓	
Very sandy	✓		
Areas of mangrove		✓	
Cliffs			✓

More than one tick per row = 0.

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- (e) natural harbour,  
sheltered bay/sheltered by headlands,  
sheltered by reef, shelter alone = 0  
gap in reef/channel into port,  
gentle slopes,  
focus of routes/routes inland/routes to port, roads alone = 0  
crops/sugar for export/crops linked to port,  
fishing/huitres,  
jetty/pier, [4]  
tourism = 0

- 2 (a) (i) 2,  
(ii) 3,  
5,  
(iii) 7,  
(iv) 3, [4]

- (b) eruptions,  
pyroclastic flows,  
ash,  
mud,  
dome collapse,  
2 hazards = 1 mark [1]

- (c) plate margin,  
plates converge/destructive (margin),  
destructive plate margin = 2  
subduction (or process described, e.g. plate sinks),  
melting,  
magma rises,  
decompression, [3]  
If wrong types of plate are named (continental etc.) ignore this and allow points in the mark scheme to be credited.

- 3 (a) (i) 22°C correctly plotted and line drawn and  
10mm correctly plotted and shaded, [1]  
(ii) southern, [1]  
(iii) 12(°C), [1]  
(iv) (less rain therefore) less cloud cover, [1]

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- (b) grass and trees/savanna = 1,  
Grass or trees on their own do not score.

Grass  
yellow/brown/dry/dead,  
tufts/tussocks/clumps,  
bare ground/sparse/scattered/patchy,

Trees  
flat topped/umbrella shaped,  
little foliage,  
widely spaced/scattered,  
thin trunks,

[4]

Allow the points to score without using the words “grass” or “trees”.

No reserved marks.

- 4 (a) (i) Two bars added  
Must be correct height and position.

Correct shading not required.

[2]

- (ii) Asylum  
decrease,

Economic reasons  
increase/steady then increase/decrease then increase,

Figures alone = 0

[2]

- (iii) natural disasters (accept a range),  
education,  
religion,  
medical treatment,  
avoid disease,  
better climate environment,  
avoid racial prejudice,  
join friends,  
better quality of life,  
forced migration,  
bright lights/entertainment,

to develop the area = 0

refugees alone = 0

better standard of living = 0

[1]

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- (b) (i) 25 and 12, [1]
- (ii) 2 sectors correctly plotted  
Key must be correct
- Tolerances:  
Asia 150 – 152°,  
Europe 53 – 55°,  
Oceania 20 – 23°, [2]
- 5 (a) (i) Mexico City,
- (ii) London, [2]
- (b) (i) carbon monoxide and ozone,
- (ii) sulphur dioxide and particles, [2]
- (c) carbon monoxide and nitrogen oxides, [1]
- (d) Los Angeles, [1]
- (e) limiting vehicle numbers allowed in cities,  
specific vehicle designs,  
development of/encourage use of public transport/park and ride,  
smokeless zones,  
MOT/servicing cars,  
tax incentives,  
limit open fires/burning,  
filters for chimneys,  
catalytic converters,  
relocation of industry,  
encourage cycling/walking,  
car pooling,  
planting vegetation,  
congestion charge,  
pollution legislation/permits,
- conversion of factories/power stations to new/green fuels,  
new/green vehicle fuels,  
new/green fuels alone = 1
- reduce the number of factories = 0  
reduce size of cities = 0  
renewable energy alone = 0 [2]

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6 (a) 850 – 950 metres, [1]

- (b) gentle(r) slopes/flatter/avoids steep/benches, flat = 0  
 cultivated land/crop growing, fertile land = 0  
 tracks,  
 rivers, R. Senqunyane or the river = 0  
 spring,  
 north facing/south slope,  
 sunny aspect/gets sun's rays,  
 2400 – 2600m,  
 higher temperatures/highland cold,  
 steep slopes for defence,

avoid flooding = 0

Allow points as description or reasons.

[5]

- (c) (too) steep,  
 (too) high,  
 (too) cold,  
 (too) inaccessible/no roads,  
 no water supply,

no sun = 0

flooding = 0

[2]