

**CAMBRIDGE INTERNATIONAL EXAMINATIONS**

Cambridge International General Certificate of Secondary Education

## **MARK SCHEME for the May/June 2015 series**

### **0460 GEOGRAPHY**

**0460/22**

Paper 2, maximum raw mark 60

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- 1 (a) (i) other, [1]  
(ii) dam, [1]  
(iii) dip tank, [1]  
(iv) 1411 metres, [1]  
(v) reservoir/building(s), (built-up, settlement = 0) [1]

If more than one feature given and one is wrong = 0

(b)

	Area in Fig. 2A	Area in Fig. 2B	Both these areas	Neither of these areas
flat land		✓		
steep land	✓			
land over 1500m	✓			
bush			✓	
tarred road				✓

More than one tick per row = 0, but for bush allow 3 ticks in columns 1, 2 and 3, or two ticks in columns 1 and 2. [5]

- (c) (i) narrow, (small = 0)  
variable width,  
flows west,  
lake,  
tributary/confluence (singular or plural),  
meanders/bends etc.,  
rapids, (rapid waterfall = 0)  
causeway,  
bridge,  
gentle gradient/on a gentle slope,  
braiding/island/splits and re-joins, [4]
- (ii) narrow/small,  
0–400 m (allow within tolerance),  
wide(r) in west/downstream, [1]
- (d) (i) 3200 – 3400 (metres), [1]  
(ii) south east, [1]  
(iii) 145° – 149°, [1]

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- (e)  $586704/5 = 2$ ,  
Correct square  $(5870) = 1$ , [2]
- 2 (a) (i) settlements in order/arrangement/rank/organisation of importance/size/services,  
Allow other valid expressions of the terms underlined. [1]
- (ii) largest/larger population,  
most/more services/stores/primary schools, [1]  
Needs to be comparative.
- (iii) more services/named services than expected/for its population/than Settlement E, [1]
- (b) (i) secondary school, [1]
- (ii) 601 – 1400, [1]
- (c) (i) settlement C plotted with 5000 population and 11 convenience stores, [1]  
(Allow without the C)
- (ii) positive correlation,  
direct relationship,  
as one increases the other increases, [1]
- (d) larger number of low order settlements/smaller number of high order settlements,  
Must be comparative. [1]
- 3 (a) Winter: frozen/no flow/flow beneath ice,  
Summer: flow/slow flow/fast flow, [2]
- (b) wide,  
gentle gradient,  
meander/bend,  
gentle/shallow banks,  
artificial/brick/stone/blocks/concrete banks,  
bridge,  
floats/buoys/net, [3]
- (c) erosion,  
erosion on outer/right bank, (= 2)  
fast(er) flow on right bank,  
protect buildings/city,  
allow access to river (for boating, fishing etc.),  
promenade/footpath/pavement,  
aesthetic appearance, [3]

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- 4 (a) start over oceans/seas,  
move towards land,  
curved paths,
- move NW in north,  
move SW in south,  
If neither of the above two points are awarded, allow 1 mark for either:  
move W, or  
move NW and SW,  
Allow if expressed as from the east etc.
- move away from Equator/towards Tropics,  
move north in Indian Ocean/move north located, [3]
- (b) Rainfall  
stops, "little or no rain" = 1  
higher before eye lower after eye (increases then decreases = 0). Allow by figures, such as 20 mm before and 8 mm after, or by 12 mm.
- Wind direction  
changes from NW to SE/opposite direction,  
becomes calm in eye,
- Pressure  
falls/low/falls then rises,  
(to) below 970 mb or reasonable figure below 970 mb,
- Temperature  
rises/high,  
(to) 30 °C/(to) 31 °C/by 5 °C/by 6 °C,
- Reserve one mark for each element.  
For points shown by figures correct unit must be given at least once. [5]
- 5 (a) yes/vehicles are a source,
- NO<sub>2</sub> found in urban areas/built-up areas/cities etc., (allow around urban areas) Not just a single city.  
NO<sub>2</sub> found in London/Birmingham/Liverpool/Leeds/Manchester,  
many/more cars/traffic congestion in urban areas,
- in lines joining urban areas/along roads/lines where vehicles travel, [4]

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(b) (i) no/little/some relationship,

most/higher/mainly in rural areas/most/higher/mainly outside urban areas/often not found in urban areas, Not just a single area.

found next to urban areas/to east of urban areas/around urban areas,

found in some urban areas,

found in/close to Liverpool/Edinburgh, Also allow Manchester/Leeds because of map labels.

low (allow none) in some urban areas,

low (allow none) in Birmingham/Glasgow/Cardiff/London/Belfast, [3]

(ii) power stations,

burning fossil fuels/coal/oil/gas/other named material,

factories/manufacturing industry/heavy industry, [1]

6 (a) (i) thick ash/most ash/30 cm of ash,

pyroclastic flows,

pyroclastic flows very destructive/dangerous/cause death,

near/4 km from volcano/summit, [2]

(ii) Advantage:

volcano a tourist attraction/tourism benefited,

Disadvantages:

parts of the island an Exclusion Zone/evacuated,

destruction of property/airport/hotel/hotels close, (Allow if expressed in future)

tourists deterred by volcano,

Advantage = 1 Disadvantage = 1 [2]

(iii) commercial activity (moved to north),

government functions (moved to the north),

jobs (in north),

new airport/airport closer, [2]

(b) subduction/description of subduction process,

beneath Montserrat,

melting,

island arc, [2]