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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 1500 m	✓			
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_2 found in urban areas/built-up areas/cities etc., (allow around urban areas) Not just a single city.
NO_2 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/<u>often</u> 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 <u>some</u> urban areas,
found in/close to Liverpool/Edinburgh, Also allow Manchester/Leeds because of map labels.

low (allow none) in <u>some</u> 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) <u>Advantage:</u>
volcano a tourist attraction/tourism benefited,

<u>Disadvantages:</u>
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]

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