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**GEOGRAPHY****0460/22**

Paper 2

**March 2019**

MARK SCHEME

Maximum Mark: 60

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**Published**

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the March 2019 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

**Generic Marking Principles**

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

**GENERIC MARKING PRINCIPLE 1:**

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

**GENERIC MARKING PRINCIPLE 2:**

Marks awarded are always **whole marks** (not half marks, or other fractions).

**GENERIC MARKING PRINCIPLE 3:**

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

**GENERIC MARKING PRINCIPLE 4:**

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

**GENERIC MARKING PRINCIPLE 5:**

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

**GENERIC MARKING PRINCIPLE 6:**

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

Question	Answer	Marks
1(a)(i)	(other) <u>major</u> buildings	1
1(a)(ii)	coniferous and mixed forest	1
1(a)(iii)	marsh (liable to flooding)	1
1(a)(iv)	low rise buildings	1
1(b)	flows north east, wide/200 m/at least 6 m wide, wider downstream/variable width, meanders, marsh/floods, bridges/roads crossing, marina, small forest stand, gentle gradient, delta/mouth/reaches sea, <u>one</u> tributary	4
1(c)	straight at beginning/in south, altered by human activity, headland(s), bay(s), stack/island(s)	2
1(d)	coastal/near sea, leisure homes/second homes, bathing, sheltered bay	2
1(e)(i)	3000–3200 m	1
1(e)(ii)	south east	1
1(e)(iii)	127–131°	1
1(e)(iv)	632031 = 2 632042 = 1	2
1(f)	flat/gentle, low, 10 m, flat inland/north west, more hilly/higher/ <u>steeper</u> in south east/along coast	3

Question	Answer	Marks
2(a)(i)	correct plot of 210 thousand	1
2(a)(ii)	(overall) decrease, from 330 thousand to 130 thousand, by more than half/by 200 thousand  least in 2010, 100 thousand in 2010  most in 2001/2  increase/higher 2005/6, increase/higher 2010/11  always positive	3
2(a)(iii)	total/net migration (mostly) positive, international immigration greater than domestic emigration, positive migration greater than negative migration	1
2(b)(i)	7768	1
2(b)(ii)	Santa Clara	1
2(b)(iii)	Alameda	1

Question	Answer	Marks
3(a)	high(er) in centre, low(er)/medium further away, very high/most in Dwarka/SW of centre/between Dwarka and South Delhi/near Dwarka, higher/medium along roads/low(er) away from roads	3
3(b)	01:00–10:00/night/early morning <u>medium</u> , 10:00–13:00/midday <u>high</u> , 13:00–18:00/afternoon <u>medium</u> , 18:00–21:00/evening <u>high</u> , 21:00–24:00/late evening/end of day/night <u>very high</u> , never low/always at least medium/average is medium	2
3(c)	<u>For</u> higher along roads/road junction/lower away from roads, high in evening/rush hour/18:00  <u>Against</u> highest area not in centre/not all along road, only medium for morning rush hour/journey to work, highest in the night when few cars/people asleep, medium/lower at Ghaziabad rod junction, high in centre is not just along roads  Reserve one mark for each.	3

Question	Answer	Marks
4(a)(i)	groundwater flow	1
4(a)(ii)	infiltration	1
4(b)(i)	straightened, deepened, strengthened/built from stone/walls to prevent <u>erosion</u>	2
4(b)(ii)	<p><u>Description</u> 4.2 higher flow/discharge, 4.2 more load, 4.2 water muddy/brown/dirty/suspension load</p> <p><u>Explanation</u> 4.2 rainfall, 4.2 faster/more energy/more/powerful, 4.2 wider</p>	4

Question	Answer	Marks
5(a)(i)	maximum-minimum/Six's <u>thermometer</u>	1
5(a)(ii)	wet and dry (bulb) <u>thermometers</u> /hygrometer	1
5(b)(i)	25 °C	1
5(b)(ii)	30 °C	1
5(b)(iii)	10 °C	1
5(c)	thermometers do not read the same/12 °C and 20 °C, evaporation, uses latent heat, cools bulb	3

Question	Answer	Marks
6(a)	fertiliser input, crops output	2

Question	Answer	Marks
6(b)(i)	<p><u>Fields</u>            rectangles/squares,            crops/arable/cultivated,            large,            flat,            variable size,            some bare/ploughed/harvested,            some with trees round/lines of trees,            crops in rows</p> <p><u>Other land use</u>            roads,            buildings,            ponds/lakes/reservoirs/water bodies,            area of trees</p>	<b>3</b>
6(b)(ii)	<p><u>Irrigation</u>            ponds/reservoirs/dams</p> <p><u>Commercial</u>            large/storage buildings/factory,            areas with no houses/settlement,            large fields/areas of land/large scale,            crops in rows for machinery,            machinery visible</p>	<b>3</b>