GEOGRAPHY

0460/23 May/June 2017

Paper 2 MARK SCHEME Maximum Mark: 60

Published

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CAMBRIDGE International Examinations

Question	Answer	Marks
1(a)(i)	power line	1
1(a)(ii)	Marsh	1
1(a)(iii)	(marked prepared) ski trail	1
1(a)(iv)	673	1
1(a)(v)	farm/farmhouse	1
1(b)	swimming, ski jump, sports park, (illuminated) ski trail, hotel/lodging, restaurant, nature reserve/nature conservation area, marked footpath, café, boatshed, Credit best three answers given.	3
1(c)	variable width/widens to south/narrows to north, island(s), 119–123 <u>m</u> , nature conservation area/nature reserve, river mouth(s)/tributary(ies), delta, bends/not straight, flow to south,	4
1(d)	trigonometric point,	1
1(e)	near lake/lake side/by Mjøsa, <u>both</u> sides (of lake), more on east side, confluence (of rivers/valleys), on low(er)/avoids high(er), on gentle(r)/on flat(ter)/avoids steep(er), in valley(s), on/along roads,	3
1 (f)	A steep uphill slope, B gentle uphill slope, C gentle downhill slope D shallow valley, If more information given, credit correct answers unless information is from more than one answer from the list.	4

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Question	Answer	Marks
2(a)(i)	central business district/CBD	1
2(a)(ii)	tall buildings/skyscrapers, high building density/little open space, name on buildings,	2
2(b)	variable heights, One mark for each pair of items from the following list: roads/railway/helicopter landing pad, flats/apartments/houses/residential, stadium/area, offices/hotels, park/grass/trees, car park,	2
2(c)	flat, main/wide road, railway, residential area for labour, residential area for market, river for transport/ <u>navigable</u> river/port, river for water supply/waste disposal/cooling, space for development,	3

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May/June	2017
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Question	Answer	Marks
3(a)	painted white – to reflect solar radiation/reflect the sun/prevent heat absorption,	5
	louvres or slats - to allow air into the screen/ventilation,	
	<i>double roof</i> – to protect against solar <u>radiation</u> /solar <u>heat</u> /prevent conduction/ for insulation,	
	<i>door faces north/south</i> – to prevent sun's rays/heat falling on the instruments/prevent sun entering,	
	raised on legs to a standard height above ground – standardisation/comparability, – to avoid terrestrial radiation/ground heat,	
3(b)(i)	6 (°C), 18 (°C),	2
3(b)(ii)	Wednesday	1

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Question	Answer	Marks
4(a)(i)	bar at 270 mm	1
4(a)(ii)	130	1
4(a)(iii)	rain in every month, lowest month is 130 <u>mm</u> /at least 130 <u>mm</u> every month/more than 100 <u>mm</u> every month/>150 <u>mm</u> every month except September, average 200–250 <u>mm</u> per month, lowest monthly total is high, high <u>annual total</u> /high <u>overall</u> rainfall, annual total 2630–2730 <u>mm</u> /more than 2600 <u>mm</u> ,	3
4(a)(iv)	sun always at a high angle/overhead, day and night of same length all year, cloudy climate,	2
4(b)	12	1

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Question	Answer	Marks
5(a)(i)	geothermal,	1
5(a)(ii)	biofuel/biomass/biogas,	1
5(b)(i)	overall increase, by 12 <u>%</u> /from 26 <u>%</u> to 38 <u>%</u> , fluctuated, 2011 increase then decrease, 2012 increase then decrease, 2013 increase (then stable), 2014 stable, peak (early) 2014,	3
5(b)(ii)	period of calm stops generation of electricity by wind, strong winds stop generation of electricity by wind, solar power reduces in cloudy/low sun periods, solar power reduces at night, HEP stops if river freezes, HEP stops during drought, (some) biofuel is seasonal/affected by crop failure, Increased use of other sources/named source,	3

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May/June	2017

Question	Answer	Marks
6(a)(i)	plot for world: 26% 0–14, 66% 15–64, 8% 65 and over.	2
	correct triangle but clearly inaccurate within it = 1 reasonably accurate within the correct triangle = 2	
6(a)(ii)	25/26/27,	1
6(a)(iii)	large(st) 15 to 64/working age, low(est) 65+,/old dependents low(est) 0–14/children/young dependents,	1
6(b)(i)	population aged 0–14 and 65 and over/population that are not working/children and old people/population not economically active,	1
6(b)(ii)	many/50% children <u>to support</u> /many/50% <u>young</u> dependents, pay for food/schools/health care etc., low tax revenue, rapid population growth in the future, lack of education/uneducated/unskilled workforce,	3