



**Cambridge International Examinations**  
Cambridge Ordinary Level

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**GEOGRAPHY**

**2230/02**

Paper 2 Skills

**May/June 2017**

MARK SCHEME

Maximum Mark: 60

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**Published**

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Question	Answer	Marks	Guidance
1(a)(i)	<b>Study the map extract of an area of Dominica. The scale is 1:25 000.</b>  <b>State the four figure grid reference of the square containing the settlement of St. Joseph.</b>  60 02	<b>1</b>	
1(a)(ii)	<b>What is the straight line distance, in kilometres, from the police station in St. Joseph to the police station in Mahaut?</b>  5.2–5.4 (km)	<b>1</b>	
1(a)(iii)	<b>In what compass direction is the police station in Mahaut from the police station in St. Joseph?</b>  SE / SSE	<b>1</b>	
1(a)(iv)	<b>Name <u>two</u> more services, other than the police station, found in St. Joseph.</b>  Church School	<b>2</b>	
1(a)(v)	<b>Compare the size and shape of the settlement of St. Joseph with the settlement of Mahaut.</b>  Size: similar / Mahaut larger  Shape: St. Joseph compact / nucleated / clustered, Mahaut linear, elongated, dispersed	<b>2</b>	Must COMPARE  NOT Wider or longer for SIZE  Answers must be on correct line.
1(a)(vi)	<b>Give a six figure grid reference for the bridge over the Belfast River, north-west of Mahaut.</b>  633 or 4 983 or 4	<b>1</b>	

Question	Answer	Marks	Guidance
1(b)(i)	<p><b>Name <u>two physical</u> features found along the coast in grid square 6003.</b></p> <p>Beach / sand / mud Cliffs River / stream / watercourse</p>	<b>2</b>	NOT Scrub Low forest as along coast.
1(b)(ii)	<p><b>State the height of the trigonometrical station on Desjardin located in grid square 6200.</b></p> <p>1076 (ft)</p>	<b>1</b>	
1(b)(iii)	<p><b>Compare the relief of the summit of Desjardin with the land called Deux Jardins to the west of the summit.</b></p> <p>Height: Desjardin higher than Deux Jardins / Desjardin &gt;1000ft, Deux Jardin &lt;1000ft Slope: Desjardin flatter / Deux Jardins steeper / Desjardin gently sloping, Deux Jardins steep slope Feature: Desjardin on plateau, Deux Jardins near valley</p>	<b>2</b>	Must COMPARE
1(c)(i)	<p><b>Fig. 1 shows part of the area in the north of the map extract.</b></p> <p><b>State the total area covered by the grid squares in Fig. 1. Give your answer in square kilometres.</b></p> <p>4 (km<sup>2</sup>)</p>	<b>1</b>	
1(c)(ii)	<p><b>Name the plantation crop grown in area A on Fig. 1.</b></p> <p>Coconut</p>	<b>1</b>	

Question	Answer	Marks	Guidance
1(c)(iii)	<p><b>Use the map extract to <u>complete Fig. 1</u> as follows:</b></p> <ul style="list-style-type: none"> <li><b>draw the river in grid square 6403</b> From left hand side river needs to follow (touch) bottom dotted line on indent in cultivation area and top of meander on right hand side should be no higher than 038</li> <li><b>write the name of the river</b> Layou (on Fig. 1)</li> <li><b>add an arrow to show the direction the river is flowing</b> Arrow right to left (on Fig.1)</li> </ul>	<b>3</b>	
1(c)(iv)	<p><b><u>On Fig. 1, mark with a dot and label with the correct letter the position of:</u></b></p> <ul style="list-style-type: none"> <li><b>a hotel (<u>H</u>)</b> Dot (or H if no dot) should be located in the gap between the road and the river c633025</li> <li><b>a bridge across the river (<u>B</u>)</b> Dot (or B) must be on the river at 644027 on bend OR just north of bend where river is close to the road OR at 641035 where river crosses the road.</li> </ul>	<b>2</b>	<p>If no dot, letter must be in correct position.</p> <p>Either bridge must be correctly located.</p>

Question	Answer	Marks	Guidance
2(a)(i)	<b>Fig. 2 shows the number of international tourist arrivals in Brunei between 2004 and 2013.</b>  <b>What is the overall trend shown on the line graph?</b>  Increase / accelerating / fluctuating	<b>1</b>	
2(a)(ii)	<b>Calculate the difference in the number of tourist arrivals in 2013 compared to 2004.</b>  110 thousand	<b>1</b>	Must have 000 or thousand
2(a)(iii)	<b>In which years did tourist numbers go down?</b>  2009 and 2012	<b>1</b>	Need BOTH years for 1 mark 1 tick only Allow 2008 and 2011 as tourists went down during these years
2(a)(iv)	<b>Suggest <u>two</u> reasons why the number of tourist arrivals might decrease in some years.</b>  Natural hazard or example in destination country Recession means people can't afford to go on holidays in some years Fear of disease or example Increase holiday costs / unfavourable exchange rates Other destinations becoming more popular Fear of terrorist attacks	<b>2</b>	Needs to be specific not too vague.  NOT Pollution Crime Lack of promotion  Needs to be why numbers have gone down.

Question	Answer	Marks	Guidance
2(b)(i)	<p><b>Fig. 3 shows the route of an 11-day cruise of Taiwan, the Philippines and Brunei.</b></p> <p><b>Use the information in the table to complete <u>on Fig. 3</u> the route taken by the cruise ship.</b></p> <p>Line should join Manila to Boracay to Puerto Princesa to Kota Kinabalu to Bandar Seri Begawan by sea</p>	1	NOT overland
2(b)(ii)	<p><b>Add an arrow <u>on Fig. 3</u> to show the direction the cruise ship will travel.</b></p> <p>Arrow direction Hong Kong towards Singapore</p>	1	
2(c)	<p><b>Photograph A (Insert) shows a poster to encourage tourists to go to Brunei.</b></p> <p><b>Explain how the photographs on the poster encourage tourists to go to Brunei.</b></p> <p>Variety / lots of things to do and see Scuba-diving Boat / river trips Nature / forests Architecture / mosques / Jame'Asr Hassanil Bolkiah mosque Culture / traditional dress Golf</p>	3	<p>NOT Green heart Unexpected treasures</p> <p>NOT Sea (too vague)</p>

Question	Answer	Marks	Guidance
3(a)(i)	<p><b>Fig. 4 shows the location of the Merapi volcano which erupted in 2010.</b></p> <p><b>Use Fig. 4 to describe the location of the Merapi volcano.</b></p> <p>Indonesia (Island of) Java Centre / middle of island near Java Trench 6 / 7 °S, 110 / 111 / 112 °E</p>	2	<p>NOT SE of Sumatra</p> <p>Between Java Trench and Java Sea</p> <p>In cluster of volcanoes</p>

Question	Answer	Marks	Guidance
3(a)(ii)	<b>Fig. 4 shows that the Indo-Australian plate is moving towards the Eurasian plate. What is the name for this type of plate boundary?</b>  Destructive / convergent	<b>1</b>	NOT Where two plates push together as name needed.
3(a)(iii)	<b>In which direction and by how many centimetres per year is the Indo-Australian plate moving?</b>  Direction: NE / NNE / N Movement: 6 / 6.5 / 7 / 6–7 (cm/year)	<b>2</b>	NOT Towards Eurasian plate as given in 3(a)(ii)  Answer must be on correct line.
3(a)(iv)	<b>What is the name of the ocean trench found along this plate boundary?</b>  Java (trench)	<b>1</b>	
3(b)	<b>Study Photograph B (Insert) which shows Merapi before and after the 2010 eruption. Describe <u>three</u> changes to Merapi.</b>  Height: overall height same but lower on one rim / side  Shape: cone to irregular / becomes more irregular  Size of crater / hole / gap: bigger  Length of scar / crack: longer / bigger  Vegetation: on lower slopes destroyed / less trees after eruption  Colour: darker / more ash / became black	<b>3</b>	Any valid specific point.  Possible to get 2 marks for height overall and lower western rim

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3(c)	<p><b>Suggest <u>one</u> positive result of volcanic eruptions.</b></p> <p>Fertile soil Resources / diamonds / gold / silver / copper / zinc Tourism / geysers / hot springs Geothermal energy</p>	<b>1</b>	<p>Any valid specific point.</p> <p>NOT Good soil on own Scenery</p>

Question	Answer	Marks	Guidance																		
4(a)	<p><b>Fig. 5 shows the distribution of the world’s population in 2000 by latitude.</b></p> <p><b>Describe the distribution of the world’s population by latitude as shown in Fig. 5.</b></p> <p>Any valid points such as: Most north of Equator / c90% Especially north of c25 / 30 °N Highest c30 °N Few / none north of 60 °N / Arctic Circle Few / none south of c40 °S Spike just south of Equator / 5–10 °S</p>	3	<p>NOT</p> <p>Above / below equator as geographical description needed especially as N and S are shown on Fig. 5</p> <p>Need N or S</p>																		
4(b)(i)	<p><b>Fig. 6 shows the population of selected South East Asian countries from 1950 to 2015.</b></p> <p><b>Use information from the table below to complete the line graph for Myanmar <u>on Fig. 6</u>.</b></p> <table><tr><th>Myanmar</th><th>1950</th><th>1960</th><th>1970</th><th>1980</th><th>1990</th><th>2000</th><th>2010</th><th>2015</th></tr><tr><td>population (millions)</td><td>18</td><td>21</td><td>27</td><td>34</td><td>42</td><td>48</td><td>52</td><td>54</td></tr></table> <p>1 for correctly plotting points 1 for use of key to join points up = solid line</p>	Myanmar	1950	1960	1970	1980	1990	2000	2010	2015	population (millions)	18	21	27	34	42	48	52	54	2	
Myanmar	1950	1960	1970	1980	1990	2000	2010	2015													
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Question	Answer	Marks	Guidance
4(b)(ii)	<p><b>Describe the overall population change in the <u>Philippines</u> from 1950 to 2015. Use data from the graph to support your answer.</b></p> <p>Increased from 18–19 million in 1950 to 100–101 million in 2015  Increase by 81–83 million  Increase at fast rate / faster than (all) others / faster after 1980</p>	3	<p>If decade by decade approach needs to have increased throughout.</p> <p>Must have millions.</p> <p>Increased rapidly = 2 marks</p>
4(b)(iii)	<p><b>Give <u>two</u> strategies that governments can use to influence population change.</b></p> <p>Introduce / improve availability of birth control  Educate women / educate about family planning  Offer incentives / allowances to have fewer / more children  Fines / penalties for too many children  Laws / encourage early / late marriage  China one-child policy  Singapore two or more policy</p>	2	<p>Must be specific.</p> <p>Accept specific points relating to migration.</p>
5(a)	<p><b>Study Fig. 7 (Insert), which shows oil palm plantations in Malaysia and Indonesia.</b></p> <p><b>For each area listed below, circle the correct answer. One has been completed for you.</b></p> <ul style="list-style-type: none"> <li><b>Sarawak</b>  0–2%    <u>3–10%</u>    11–20%    21–40%</li> <li><b>Sabah</b>  0–2%    3–10%    <u>11–20%</u>    21–40%</li> <li><b>Sulawesi</b>  <u>0–2%</u>    3–10%    11–20%    21–40%</li> <li><b>Southern tip of Peninsular Malaysia</b>  0–2%    3–10%    11–20%    <u>21–40%</u></li> </ul>	3	

Question	Answer	Marks	Guidance						
5(b)	<p><b>Fig. 8 shows the world production of palm oil in 2011.</b></p> <p><b>Use the pie chart to complete the boxes <u>in the key on Fig. 8</u>.</b></p> <table><tr><td>others</td><td>17</td></tr><tr><td>Indonesia</td><td>43</td></tr><tr><td>Malaysia</td><td>40</td></tr></table>	others	17	Indonesia	43	Malaysia	40	1	
others	17								
Indonesia	43								
Malaysia	40								
5(c)(i)	<p><b>Fig. 9 shows the change in forest cover in Malaysia and Indonesia between 2000 and 2010.</b></p> <p><b>Name the Indonesian island that increased its forest cover between 2000 and 2010.</b></p> <p>Java</p>	1							
5(c)(ii)	<p><b>Kalimantan decreased its forest cover by 12% between 2000 and 2010. Use the key <u>on Fig. 9</u> to add a bar for Kalimantan.</b></p> <p>See example</p>	1	Shading not needed if plotted correctly.						
5(c)(iii)	<p><b>Rank the following areas in order of % forest cover decrease from highest to lowest:</b></p> <table><tr><td>Sumatra</td><td rowspan="4"><div>highest</div><div>↕</div><div>lowest</div></td></tr><tr><td><b>Kalimantan</b></td></tr><tr><td>Sulawesi</td></tr><tr><td>Peninsular Malaysia</td></tr></table>	Sumatra	<div>highest</div> <div>↕</div> <div>lowest</div>	<b>Kalimantan</b>	Sulawesi	Peninsular Malaysia	1		
Sumatra	<div>highest</div> <div>↕</div> <div>lowest</div>								
<b>Kalimantan</b>									
Sulawesi									
Peninsular Malaysia									

Question	Answer	Marks	Guidance
5(c)(iv)	<p><b>Describe an impact of deforestation on each of the following:</b></p> <p>Atmosphere: Less CO<sub>2</sub> absorption / less O<sub>2</sub> released / burning increases CO<sub>2</sub> / increase greenhouse gases / increase global warming / climate change / air pollution / haze</p> <p>Soil: No tree roots to hold soil in place / soil erosion / rain washes soil away / wind blows soil away / leaching / rain washes nutrients out of soil / landslides</p> <p>Animals: Loss of habitats / less food / animals become endangered or extinct / loss of biodiversity</p>	<b>3</b>	<p>Must be specific e.g. burning trees causes air pollution / haze.</p> <p>NOT</p> <p>Acid rain Flooding</p>