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**GEOGRAPHY**

**0460/21**

Paper 2

**May/June 2017**

MARK SCHEME

Maximum Mark: 60

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**Published**

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This document consists of **5** printed pages.

| Question  | Answer  | Marks |
|-----------|---|-------|
| 1(a)(i)   | Railway   | 1     |
| 1(a)(ii)  | power line  | 1     |
| 1(a)(iii) | sports ground   | 1     |
| 1(a)(iv)  | Vosso   | 1     |
| 1(b)      | near lake / on lakeside,<br>on river,<br>gentle(r) slope / flat,<br>low(er) ground / valley,<br>road junction / route centre,<br>valley confluence,<br>river confluence,<br>railway junction,   | 4     |
| 1(c)      | Hill / mountain / high,<br>654 <u>m</u> ,<br>steep slopes,<br>convex / gentle(r) upper slopes,<br>deep valley,<br>small valleys,<br>steeper in N/W / gentler in S/E,  | 4     |
| 1(d)(i)   | Forest  | 1     |
| 1(d)(ii)  | Cultivation   | 1     |
| 1(d)(iii) | private road  | 1     |
| 1(e)(i)   | 3050m   | 1     |
| 1(e)(ii)  | along valley side / along side of a slope,<br>gentle gradient / keeps as level as possible / (about) 300 <u>m</u> ,<br>avoids steep slope (lower in valley),<br>descends to X,<br>hairpins (etc.),<br>goes NW / NNW,<br>through cultivation <u>and</u> forest,<br>past houses <u>and</u> farms,<br>road junction(s) (not X),<br>crosses stream(s) / river(s), | 4     |

| <b>Question</b> | <b>Answer</b>   | <b>Marks</b> |
|-----------------|---|--------------|
| 2(a)(i)         | 6   | <b>1</b>     |
| 2(a)(ii)        | inverse relationship,<br>higher order = lower number / lower order = higher number,<br><br>positive relationship<br>higher order = larger distance apart / lower order = smaller distance apart,<br><br>For high and low order allow two named settlement types for each. | <b>2</b>     |
| 2(b)            | circle to include at least two neighbouring hamlets / villages but no towns,  | <b>1</b>     |
| 2(c)            | road junction / focus / route centre,<br>accessible,<br>no other towns in the area,<br>large sphere of influence,   | <b>2</b>     |
| 2(d)            | 2<br>4<br>5<br>1<br>3<br><br>All 5 correct = 2<br>3/4 correct = 1   | <b>2</b>     |

| <b>Question</b> | <b>Answer</b>  | <b>Marks</b> |
|-----------------|--|--------------|
| 3(a)(i)         | two converging arrows  | <b>1</b>     |
| 3(a)(ii)        | X  | <b>1</b>     |
| 3(a)(iii)       | on islands,<br>to west of plate boundary,<br>in a line / on north-south line,<br>near / in South China Sea,<br>on subduction zone,   | <b>2</b>     |
| 3(b)            | roads destroyed / damaged,<br>settlements / villages cut off,<br>settlements / villages need to use boats for transport,<br>settlements / villages destroyed / damaged,<br>people evacuated,<br>not all settlements / villages at risk,                          | <b>2</b>     |
| 3(c)            | ash – burial / suffocation / collapse of buildings,<br>volcanic bombs / large rocks – killed by force,<br>pyroclastic flows – burning / killed by force / burial,<br>lateral blast – killed by force,<br>gases – poisoned / suffocated,<br>post-eruption famine, | <b>2</b>     |

| Question | Answer   | Marks    |
|----------|--|----------|
| 4(a)     | Shrubs / bushes / scrub,<br>(one) larger bush / small tree,<br>No / few leaves,<br>red leaves / red flowers,<br>small leaves,<br>bulbous / wide / thick trunk,<br>thorns / spikes,<br>flowers / yellow leaves, | <b>4</b> |
| 4(b)     | Hot / very hot / high / very high,<br>13 °C,<br>23 °C (error carried forward),<br>Low / very low,  | <b>4</b> |

| Question | Answer   | Marks    |
|----------|--|----------|
| 5(a)(i)  | safe from illness / death,<br>cholera / diarrhoea / typhoid,<br>children / old more susceptible,<br>more able to work / develop the economy,<br>less money spent on health care,<br><br>Allow converse of points where relevant. | <b>2</b> |
| 5(b)(i)  | PNG  | <b>1</b> |
| 5(b)(ii) | rural less / urban more,<br>Australia / MEDC no difference / both 100%,<br>PNG big difference,   | <b>2</b> |
| 5(c)(i)  | larger sector 74–77° and key correct   | <b>1</b> |
| 5(c)(ii) | agriculture the main use,<br>PNG an anomaly (for agriculture / industry),<br>industry the least use,<br>Indonesia an anomaly (for industry),   | <b>2</b> |

| Question  | Answer  | Marks    |
|-----------|---|----------|
| 6(a)(i)   | large scale arable  | <b>1</b> |
| 6(a)(ii)  | contour ploughing,<br>water trapped in furrows,<br>increased infiltration,<br>less surface runoff,<br><br>(planting) trees / shelter belts,<br>blocks wind / reduces wind speed,<br>wind cannot pick up soil,<br>roots bind soil,<br><br>2 marks for each method. | <b>4</b> |
| 6(b)(i)   | produce more / increase profits / increase income,  | <b>1</b> |
| 6(b)(ii)  | sell less / reduced profits / lose money,<br>unable to compete with EU producers / more European sugar beet bought,   | <b>1</b> |
| 6(b)(iii) | reduced price of sugar / cheaper sugar,   | <b>1</b> |