
GEOGRAPHY

2217/13

Paper 1 Geographical Themes

May/June 2016

MARK SCHEME

Maximum Mark: 75

Published

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Section A

- 1 (a) (i) Movement of people from one area/place/country/location to another/in or out of the country
- 1 mark [1]
- (ii) Involuntary = people are forced to migrate
International = migration from one country to another
Internal = migration within a country
- 3 correct = 2 marks
2 correct = 1 mark
0 or 1 correct = 0 mark [2]
- (iii) Ideas such as:
- reduction of/loss of male/young/working/active population/fewer people to do jobs/imbanced population sex structure;
 - reduction in food supply/starvation/malnutrition/reduction of farm production/lack of farmers/farms neglected;
 - less pressure on utilities or example (water supply);
 - less pressure on services or example (hospitals);
 - social problems or example/no-one to look after elderly;
 - benefit of remittances or example/send money back;
 - families divided;
 - underused services, e.g. schools/shops close down;
 - easier to find work for people left behind;
 - fewer people to share food among;
 - travel further to access services, etc.
- 3 @ 1 mark [3]
- (iv) Ideas such as:
- (lack of) work/(un)employment/more job opportunities;
 - low/high paid work;
 - people cannot afford/so people will be able to afford housing/lower house prices;
 - people cannot afford/so people will be able to afford health care/free healthcare;
 - people cannot afford/so people will be able to afford education/government provides free education/subsidised education;
 - high exchange rate/strong currency;
 - poor economy/poverty/low GDP/lower taxes;
 - expensive living costs, etc.
- NB:** Accept pulls and pushes but no double credit.
Must be economic.
- 4 @ 1 mark [4]

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- (b) (i)
- Indonesia has negative net migration/more move out than in;
 - Singapore has positive net migration/more move in than out;
 - it is higher in Singapore/net migration higher in Singapore/lower in Indonesia;
 - comparative statistics: Indonesia –1.25 to –1.3 m compared with Singapore 0.9 to 1 m.

NB: Reserve 1 mark for statistics.

3 @ 1 mark

[3]

(ii) Ideas such as:

- enlarges labour force/helps to exploit resources/do seasonal jobs (dev);
- cheap labour;
- people will do jobs locals will not do/dirty jobs;
- skilled labour; or example – doctors/engineers (dev);
- cultural exchange/multi-cultural society;
- specific services set up; or example – Chinese restaurants (dev);
- stronger military/join armed forces;
- raises more tax revenue/more taxes paid to government;
- brings new ideas/inventions;
- reduces dependency ratio;
- brings larger market for businesses/shops can sell more;
- increases GDP/helps country to develop/helps the economy;
- employment/revenue for the country created by new businesses/competition lowers prices by new businesses, etc.

5 @ 1 mark or development

[5]

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(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail which describe the problems faced by migrants living in squatter settlements.

Level 2 (4–6 marks)

Uses named example.

More developed statements which describe the problems faced by migrants living in squatter settlements.

NB: Max 5 if no named or inappropriate example.

Level 3 (7 marks)

Uses named example.

Comprehensive and accurate statements including some place specific reference.

Content Guide:

Answers are likely to refer to:

- poor quality housing,
- water and air pollution,
- shortage of food and water,
- high crime rates,
- not enough health care and education,
- lack of employment,
- poverty,
- lack of qualifications/skills/education/no experience,
- some cannot speak the language/language barrier,
- low paid jobs,
- may have to live away from their families,
- discrimination may occur,
- exploitation by employers, etc.

Place specific reference is likely to consist of:

named parts of the city/squatter settlement,
statistical data, etc.

NB: Name of urban area can be a city, part of a city or squatter settlement name. If a rural area, country or continent is named, then max 5. Can accept LEDC or MEDC. **[7]**

[Total: 25 marks]

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2 (a) (i) Allow tolerance between 14–16

1 mark [1]

- (ii)
- More for residential than open space;
 - 41–43% residential compared with 20–21% open space;
 - (more than) twice as much used for residential than open space, etc.

2 @ 1 mark [2]

(iii) Uses such as:

- parks;
- gardens/allotments;
- woodland;
- playing fields/sports grounds/football pitches/playground;
- public squares;
- car parks, etc.

3 @ 1 mark [3]

(b) (i) Ideas such as:

- docks/bay to dock ships/harbour/ wharf;
- apartments/housing/residential;
- industry/factories/mills/silos;
- warehouses;
- roads/car parks;
- hotels;
- offices;
- shops;
- cafés/restaurants, etc.

3 @ 1 mark [3]

(ii) Ideas such as:

- near to sea/coastal site/river estuary;
- easy trade/easy import of raw materials/export of finished products;
- flat/low land for construction;
- deep water;
- sheltered water;
- good roads;
- railways;
- lots of industry;
- fish caught/landed;
- development of tourism/cruise liners, etc.

4 @ 1 mark [4]

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(iii) Characteristics such as:

- high density land use;
- high rise buildings/skyscrapers;
- mainly high/middle order;
- leisure/entertainment facilities;
- crowded with people/congested;
- lots of traffic;
- possibly pedestrianised;
- high cost land/high rents;
- shopping/retail facilities;
- accessible/good transport links or examples/well served by public transport, etc.

NB: Max 2 on any specific land uses, e.g.:

secondary schools, universities, hospitals, shops, offices, cinema, theatre, shopping malls, etc.

5 @ 1 mark or development (which should be description not explanation)

[5]

(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail which describe recent changes which have taken place in CBD.

Level 2 (4–6 marks)

Uses named example.

More developed statements which describe recent changes which have taken place in CBD.

NB: Max 5 if no named or inappropriate example.

Level 3 (7 marks)

Uses named example.

Comprehensive and accurate with some place specific reference.

Content Guide:

Answers are likely to refer to;

- closure of shops/services;
- opening of new shops/services/malls;
- pedestrianisation;
- traffic improvements, etc.

Place specific reference is likely to consist of:

named roads/malls;
locational details of services/shops;
named shops and services, etc.

NB: Should be CBD not urban area generally.

[7]

[Total: 25 marks]

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Section B

3 (a) (i) Atmospheric/air pressure

1 mark [1]

(ii) 25–26C – 19–20C (1 mark)
= 5–7C (2nd mark)

NB: No need for degrees C to be stated.

2 @ 1 mark [2]

(iii) Q = Maximum and minimum thermometer/sixes thermometer;
R = Wet and dry (bulb) thermometer/hygrometer;
S = anemometer.

3 @ 1 mark [3]

(iv) Instruments Q/R:

- they will not be affected by direct sunshine;
- they will not be affected by wind/ventilation;
- they will measure conditions of air not ground;
- they will not be tampered with, etc.

Instrument S:

- the wind will not be blocked;
- as it will not be sheltered by trees/buildings;
- it will not be tampered with (no double credit).

Reserve 1 mark for each of Q/R and S.

4 @ 1 mark [4]

(b) (i) Ideas such as:

- Photograph C clouds are white/D are grey;
- Photograph C clouds are higher;
- Photograph D clouds cover a greater proportion of sky than Photograph C/D covers sky, C does not/more in D than C/bigger clouds in D/sparse in C, dense in D;
- Photograph D clouds are more likely to bring rain;
- Photograph C clouds are stratus/cirrus/D cumulus;
- Photograph C is thin, D is thick idea, etc.

3 @ 1 mark [3]

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- (ii) Ideas such as:
- heating/heat;
 - evaporation;
 - transpiration/evapotranspiration;
 - air/water vapour rises;
 - cooling;
 - condensation;
 - saturation;
 - convection, etc.

5 @ 1 mark or development

[5]

(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail which explain how its characteristics are influenced by the Equatorial climate.

Level 2 (4–6 marks)

Uses named example.

More developed statements which explain how its characteristics are influenced by the Equatorial climate.

NB Max 5 if no named or inappropriate example.

Level 3 (7 marks)

Uses named example.

Comprehensive and accurate statements which explain how its characteristics are influenced by the Equatorial climate, including some specific reference or examples/types of plants.

Content Guide:

Answers are likely to refer to:

- vegetation types,
- height and density of vegetation,
- evergreen nature of vegetation,
- fauna,
- constant hot/wet climate,
- humidity, etc.

Place specific reference is likely to consist of:

details of named parts of the area,
reference to specific flora/fauna,
statistical information,
examples of species, e.g. Mahogany, etc.

[7]

[Total: 25 marks]

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4 (a) (i) Area of land drained by a river and its tributaries

1 mark [1]

(ii) In the soil = infiltration/throughflow
In the rock = percolation/groundwater flow

2 @ 1 mark [2]

(iii) Ideas such as:

- variation of precipitation within drainage basin;
- variation in vegetation cover/in some areas there is more/less vegetation/presence/absence of trees;
- type of trees, e.g. coniferous compared with deciduous/broad leaf;
- size of trees;
- as precipitation can reach the surface directly;
- trees are likely to intercept more precipitation than grass;
- as their leaves have more surface area, etc.

NB: Ideas must link to interception.

3 @ 1 mark [3]

(iv) The river is likely to become:

- wider;
- deeper;
- with more discharge;
- faster flowing;
- more meandering/winding;
- more load;
- smaller size of particles in load;
- more deposition less erosion or examples;
- presence of ox-bow lakes;
- levees;
- gradient is less steep/flatter;
- channel bed gets smoother;
- vertical erosion at A and lateral erosion at B, etc.

4 @ 1 mark [4]

(b) (i) Ideas such as:

- arc like/arcuate/triangular shaped/fan shaped;
- north facing/flows to north;
- many distributaries/splits into smaller rivers/streams;
- 200–300km maximum west to east;
- 150–200km maximum from north to south, etc.

3 @ 1 mark [3]

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(ii) Ideas such as:

- large amounts of sediment brought downstream;
- deposition in lower course;
- as speed of flow is reduced;
- and flocculation occurs due to salt in water;
- deposited silt blocks course of river;
- which splits into distributaries to reach sea;
- deposited materials are not washed away/grows towards sea;
- due to lack of current;
- colonisation by vegetation, etc.

5 @ 1 mark or development

[5]

(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail which explain the causes of flooding.

Level 2 (4–6 marks)

Uses named example.

More developed statements which explain the causes of flooding.

NB: Max 5 if no named or inappropriate example.

Level 3 (7 marks)

Uses named example.

Comprehensive and accurate statements, including some specific reference.

Content Guide:

Answers are likely to refer to:

- heavy/continuous rainfall,
- saturation of rocks/soil,
- snow melt,
- deforestation,
- building on flood plains/urbanisation,
- lack of protective measures,
- dam collapsed, etc.

Place specific reference is likely to consist of:

locational details,
statistical information, etc.

[7]

[Total: 25 marks]

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Section C

5 (a) (i) 34–35

1 mark [1]

(ii) Coal
Renewables

2 @ 1 mark [2]

(iii) Ideas such as:

- takes millions of years to make/they are non-renewable/may become exhausted/run out;
- increasing/fluctuating costs;
- costs of transport/extraction are high;
- they pollute the atmosphere/give off greenhouse gases/carbon dioxide;
- fears over global warming;
- cause acid rain, etc.

3 @ 1 mark [3]

(iv) Ideas such as:

Benefits such as:

- low production cost;
- no air pollution/greenhouse gases/global warming/no emissions/no gases;
- small amounts of raw materials/uranium required/will last a long time/produce large amount of energy from small amounts of uranium/little amount of raw material.

Problems such as:

- construction costs are high/decommissioning costs are high;
- worries over radiation/reactor meltdown/concerns over cancers or mutations;
- storage/disposal of waste is not easy/radioactive waste produced;
- land cannot be used after closure for many years, etc.

NB: Reserve 2 marks on each of benefits/problems.

4 @ 1 mark [4]

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- (b) (i) Ideas such as:
- SE/SW/South of Cape Cod;
 - NW/North of Nantucket Island;
 - off south east (coast) of Massachusetts;
 - 10 km from Cape Cod;
 - in Nantucket Sound;
 - NE of Martha's vineyard, etc.

NB: Need to name a place/feature and give direction and/or distance from it.

3 @ 1 mark

[3]

- (ii) Ideas such as:

Opponents will argue:

- there is a visual impact/turbines can be seen for many miles;
- hotel owners may be worried about loss of tourism/impact on water sports;
- birds flying into turbines/kill birds;
- marine ecosystems disrupted by construction;
- possible disruption to shipping;
- fishing industry problems;
- only small amount of energy can be generated in relation to initial cost;
- energy will only be generated when wind is blowing;
- construction costs are expensive;
- problems during construction or examples, etc.

Supporters will argue:

- low cost electricity once constructed;
- non-polluting form of energy;
- creation of employment for construction/maintenance;
- away from land so no noise pollution;
- renewable/sustainable electricity produced;
- windier offshore than on land, etc.

NB: Reserve 1 mark for opponents/supporters.

5 @ 1 mark or development

[5]

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(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail which describe and/or explain the location of industry.

Level 2 (4–6 marks)

Uses named example.

More developed statements which explain the location of industry.

NB: Max 5 if no named or inappropriate example.

Level 3 (7 marks)

Uses named example.

Comprehensive and accurate statements, which describe and explain the location of industry, including some place specific reference.

Content Guide:

Answers could refer to:

- raw materials,
- market,
- power supplies,
- communications,
- inertia,
- workforce, etc.

Place specific reference is likely to consist of:

locational details,
specific details of industry,
named/numbered roads, etc.

[7]

[Total: 25 marks]

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6 (a) (i) USA China Brazil

1 mark [1]

(ii) Domestic = use in the home
industrial = use in factories

2 @ 1 mark [2]

(iii) Ideas such as:

- Canada uses more per person overall;
- Mexico uses a greater amount in agriculture;
- Canada uses a greater amount in industry;
- Canada uses a greater amount domestically;
- Canada most in industry but Mexico most in agriculture;
- Canada least in agriculture but Mexico least in domestic, etc.

NB: Alternatively, comparative statistics can be used.

3 @ 1 mark [3]

(iv) Ideas such as:

- Canada has more rainfall/farmers need to use more irrigation/Mexico has less rainfall/more drought/more water shortages;
- Mexico has lots more farmland/Mexico relies more on farming/Canada can import food;
- Canada has more industries;
- homes in Canada have many appliances which use water;
- Canada has better water supply infrastructure or examples, e.g. pipes, etc. (or reverse statements).

NB: No need for comparisons.

4 @ 1 mark [4]

(b) (i) springs
wells
reservoirs
river
or accept named examples from map.

3 @ 1 mark [3]

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(ii) Ideas such as:

- water is an essential for life/essential to survive;
- without it people would become dehydrated;
- good infrastructure will ensure supplies are continuous;
- people will not have to walk long distances to fetch water/do not waste time fetching water;
- water will be clean/not carry disease so people will not suffer waterborne diseases or example/good health;
- industries depend on water for processing/cooling;
- electricity generated using water supplies;
- hospitals have access to water;
- don't have to worry about water shortages;
- long life expectancy;
- hygiene/sanitation improved, etc.

5 @ 1 mark or development

[5]

(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail which explain the causes of food shortages.

Level 2 (4–6 marks)

Uses named example.

More developed statements which explain the causes of food shortages.

NB: Max 5 if no named or inappropriate example.

Level 3 (7 marks)

Uses named example.

Comprehensive and accurate statements, including some place specific reference.

Content Guide:

Answers are likely to refer to:

- drought,
- natural disasters,
- war,
- pests,
- crop diseases,
- commercial farming,
- poverty/unemployment, etc.

Place specific reference is likely to consist of:

locational details,
specific details of settlements/areas affected,
statistical information, etc.

[7]

[Total: 25 marks]