



Cambridge International AS & A Level

GEOGRAPHY

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Paper 2 Core Human Geography

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MARK SCHEME

Maximum Mark: 60

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.

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This document consists of **17** printed pages.

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.

Section A

Answer **all** questions in this section. All questions carry 10 marks.

Population

Question	Answer	Marks
1	Fig. 1.1 shows the changes in global infant mortality rate (IMR) between 1990 and 2016.	
1(a)	Calculate the decrease in IMR between 1990 and 2016 shown in Fig. 1.1. Show your working. 65 – 30 = 35 1 mark for correct answer, 1 mark for showing working with two correct readings.	2
1(b)	Suggest <u>two</u> reasons for the decrease in IMR shown in Fig. 1.1. Candidates may offer reasons for the overall decrease and/or for any variations in the rate of decrease – the rate of decrease is more pronounced from 1997 to 2011 than the early or later periods. Reasons could include: • improved health care for infants • maternal health improvements such as pre-conception or pre-natal education • new-born screening programmes • early child immunisation against diseases such as measles, polio, etc. • protection of sleeping infants from diseases such as malaria or education about issues related to SIDS • improved nutrition such as vitamin supplements or measures which improve quality of feeding of infants • financial support for families such as grants or incentives • other 1 mark for a simple point, 2 marks for a developed point.	3

Question	Answer	Marks
1(c)	With the aid of a diagram(s), explain how population structure may be influenced by a reduction in infant mortality rates. The explanation should involve the use of at least one valid diagram, e.g. an annotated population pyramid. Validity of a diagram may originate from sound annotation or clear referencing in the text. Full marks could be achieved using a well annotated diagram(s). Candidates may focus on short-term and/or long-term influences with a maximum possible on short-term influences. Candidates may mention: • more children survive, so the decline in lower age groups lessens • increase in numbers of children increases the youth dependency (wide base) • birth rates eventually fall, so in the long term the base of the population pyramid narrows and declines much later. This might lead to an ageing population structure • explanation of how a reduction in IMR leads to a decline of birth rate; as the survival chances of children increases, so there is less need to have large families Credit a simple point 1 mark, or a point with development (such as a clear link to changes in population structure) 2 marks, to the maximum. Max. 2 for no valid diagram.	5

Migration

Question	Answer	Marks
2	Table 2.1 shows the population of world regions and origin of international migrants in 2017.	
2(a)(i)	Using Table 2.1, state the world region: with the largest number of international migrants Asia	1
2(a)(ii)	Using Table 2.1, state the world region: with the smallest difference between its percentage of global population and its percentage of international migrants. Australasia	1
2(b)	Using evidence from Table 2.1, describe the relationship between population size of a world region and the percentage of international migrants originating from a world region. Candidates should offer data from Fig. 2.1 to support the description. There is a positive relationship (1) , with the exception of Africa (1) . Additional mark for accurate use of data.	3
2(c)	Explain how international migration can have negative impacts on receiving/destination areas. Candidates are free to develop their own reasoning based upon voluntary and/or forced migration. Responses may consider demographic, economic, social, environmental and political impacts. Key ideas include: • changes to employment market • loss of money from the economy due to remittances • can expose racism in the destination population leading to discrimination • breakdown of culture and tradition • pressure on housing/health/education sectors • social segregation • disease • crime/violence/unrest • economic costs of providing for refugees • other Credit a simple point 1 mark , or a point with development (with detail or an example) 2/3 marks , to the maximum.	5

Settlement dynamics

Question	Answer	Marks
3	Fig. 3.1 is a photograph which shows part of the city of Rio de Janeiro, Brazil, an MIC in South America.	
3(a)	Suggest a type of economic activity in the area marked X on Fig. 3.1. Credit tourism or a named service activity based upon evidence which can be seen in area X. Valid named service could include hotels, cafes/restaurants, or beach vendors.	1
3(b)	Using evidence from Fig. 3.1, describe how the competition for space influences the characteristics of the buildings in the whole area shown in the photograph. Answers should include evidence from Fig. 3.1: • high rise buildings and/or tall buildings • relatively narrow buildings • densely packed/lack of open space • building on steep slopes • beach side activities 1 mark for a simple point, 2 marks for a point with supporting evidence from Fig. 3.1, up to the maximum.	4
3(c)	Explain how social factors can lead to residential segregation in urban areas. Candidates are free to develop their own explanation. Some valid factors might come under the heading of socio-economic, but purely economic factors are not valid. Key factors include: • discrimination • outmigration influencing social structure • in-migration of groups • influence of family and friends • cultural support • safety in numbers • age • ethnic groups • specialist services supporting specific groups • other Credit a simple point 1 mark, or a point with development (with detail or an example) 2/3 marks, to the maximum.	5

Section B

Answer **one** question from this section. All questions carry 30 marks.

Population

Question	Answer	Marks
4(a)(i)	Describe how the death rate changes over time in the demographic transition model (DTM). Answers may be made in full using a well annotated diagram of the model: • Stage 1 Death Rate high and fluctuating • Stage 2 Death Rate falls rapidly • Stage 3 Death Rate still falling but rate of decrease has slowed down – this decrease in rate started at the end of Stage 2 • Stage 4 Death Rate fluctuates but remains low • Stage 5 Death Rate starts to rise and is above Birth Rate For each correct description of death rate in each stage, 1 mark.	4
4(a)(ii)	Suggest <u>two</u> reasons why the death rate falls before the birth rate falls in the DTM. Candidates are free to develop their own reasons. Possible answers include: • death rates can be reduced by improvements in basics such as water supply, sanitation, food supply, etc., which are applied to the whole population • developments in medicine that affect death rate taken up more quickly • acceptance of improvements to factors that affect basic standard of living is easier than factors influencing birth rates • the need for a large workforce remains • factors such as culture, religion and the role of women in society influence birth rates and are harder or take time to change Credit a simple point 1 mark, or a point with development (with detail linking the two rates or an example) 2 marks, to the maximum.	3

Question	Answer	Marks
4(b)	With the aid of examples, explain why some countries have high death rates. Responses will vary depending on the examples and reasons chosen but credit any valid explanation. The explanation may draw on the following factors: • economic, e.g. lack of finance to support health care provision, immunisation programmes, infrastructure provision such as safe water, etc. • social, e.g. spread of communicable disease, e.g. AIDS, Ebola, COVID-19 • environmental, e.g. natural disasters, climatic hazards • political, e.g. war and its wider impact • demographic, e.g. ageing population Max. 3 marks for a generic response without examples. Award marks based on the quality of explanation and breadth of the response using the marking levels below. Level 3 (6–8) Response explains why death rates are high in some countries thoroughly in a clear and focused manner. Response is well founded in detailed knowledge and strong conceptual understanding of the topic. Any examples used are appropriate and integrated effectively into the response. Level 2 (3–5) Response explains one or more reasons why death rates are high in some countries. Response develops on a largely secure base of knowledge and understanding. Examples may lack detail or development. Level 1 (1–2) Response comprises one or more points about death rates which may not be carefully focused on why they are high in some countries. Knowledge is basic and understanding may be inaccurate. Examples are in name only or lacking entirely. Level 0 (0) No creditable response.	8

Question	Answer	Marks
4(c)	With reference to your case study of <u>one</u> country's population policy, assess the extent to which it is difficult to manage the birth rate component of natural increase. Candidates are free to develop their own approach to the question and responses will vary depending on the approach chosen. Whichever approach is chosen, essays which address the question and support their argument with relevant examples will be credited. There may be detailed consideration of a case study/one or more examples, or a broadly conceived response, drawing on several examples to illustrate the factors involved. Difficulty may be differentiated spatially (e.g. by region, rural/urban), between groups of people and over time (e.g. initially easier but the difficulty changing as population structure changes or difficulties related to short term events or conditions). Factors influencing difficulty of managing the birth rate component of natural increase may vary according to whether the case study is focused on either high or low birth rates or a temporal approach is taken. Content may include: • access to family planning and/or education about contraception • level of female empowerment • the role or cost of children • religious or cultural influences • level of infant mortality • population structure • political policies • economic cost • personal choice • other Award marks based on the quality of the response using the marking levels below. Level 4 (12–15) Response thoroughly discusses the extent to which it is difficult to manage the birth rate component of natural increase in the chosen country thoroughly in a clear and well developed assessment. Examples used are appropriate and integrated effectively into the response. Response is well founded in detailed knowledge and strong conceptual understanding of the topic. Level 3 (8–11) Response discusses the extent to which it is difficult to manage the birth rate component of natural increase and offers an overall assessment which may be limited or unbalanced. Examples may lack detail or development. Response develops on a largely secure base of knowledge and understanding.	15

Question	Answer	Marks
4(c)	Level 2 (4–7) Response shows general knowledge and understanding of the chosen population policy with limited focus on the extent to which it is difficult to manage the birth rate component of natural increase. Response is mainly descriptive or explanatory with limited use of examples and understanding of the topic may be partial or inaccurate. Some concluding remarks. General responses without the use of example(s) will not get above the middle of Level 2 (6 marks). Level 1 (1–3) Response may broadly discuss population policy but does not address the question and does not come to a convincing conclusion. Response is descriptive, knowledge is basic and understanding is poor. Level 0 (0) No creditable response	

Migration/Settlement dynamics

Question	Answer	Marks
5(a)	Compare the process of chain migration with the process of stepped migration. Candidates may consider both similarities and differences. Expect more content on chain migration. Chain migration involves a movement to places where: people they know already live; there may be cultural links; each new immigrant makes it more likely for people they know in their place of origin to follow; assistance is given by previous migrants in the form of information, money, accommodation, employment, etc.; the process may be age or gender selective; information may be provided in the area of origin via advertisements, etc. Stepped migration is a series of movements: breaking down a longer distance movement into shorter distances or stages; the migrant spends time in a place to gain information, experience and or the capital to make the next step; normally movement is up the urban hierarchy, etc. Answers may use one or more well annotated diagrams. Credit basic comparison 1 mark, or a point with development (such as detail or an example) credit 2 marks, to the maximum. Max. 4 marks for two separate descriptions with no element of comparison.	7

Question	Answer	Marks
5(b)	Explain the impact of rural-urban migration on the provision of services in rural areas. This requires a focused explanation of the impact of rural-urban migration on the provision of services in rural areas. Impacts may be for <u>rural</u> areas in LICs, MICs and/or HICs. Candidates may include: • loss of population • age and/or gender selectivity of rural to urban migration • loss of customers for rural services leads to closure or less frequent services • harder to improve basic services in rural areas as investment focuses on urban areas to cope with the increase in numbers • remittances from migrants supports provision of services in rural areas • loss of workforce leads to younger family members having to engage in economic activities and therefore leaving school • other Award marks based on the quality of explanation and breadth of the response using the marking levels below. Level 3 (6–8) Response explains the impact of rural-urban migration on the provision of services in rural areas thoroughly in a clear and focused manner. Response is well founded in detailed knowledge and strong conceptual understanding of the topic. Any examples used are appropriate and integrated effectively into the response. Level 2 (3–5) Response explains one or more impacts of rural-urban migration on the provision of services in rural areas. Response develops on a largely secure base of knowledge and understanding. Examples may lack detail or development. Level 1 (1–2) Response comprises one or more points about rural-urban migration which may not be carefully focused on the provision of services in rural areas. Knowledge is basic and understanding may be inaccurate. Examples are in name only or lacking entirely. Level 0 (0) No creditable response.	8

Question	Answer	Marks
5(c)	With the aid of examples, assess the extent to which age influences patterns of migration. Candidates are free to develop their own approach to the question and responses will vary depending on the approach chosen. Whichever approach is chosen, essays which address the question and support their argument with relevant examples will be credited. There may be detailed consideration of a case study/one or more examples, or a broadly conceived response, drawing on several examples to illustrate the factors involved. Any type of migration and/or pattern may be considered. Candidates are expected to assess the influence of age on patterns of migration but may consider other factors as well, such as: distance, cost, national borders, etc., and this could form a route to discussing the influence of age versus other factors. Patterns considered may vary spatially (e.g. internal or international movements) between groups of people and over time (e.g. historically or generation/life cycle). Award marks based on the quality of the response using the marking levels below. Level 4 (12–15) Response thoroughly discusses the influence of age on patterns of migration in a clear and well developed assessment. Examples used are appropriate and integrated effectively into the response. Response is well founded in detailed knowledge and strong conceptual understanding of the topic. Level 3 (8–11) Response discusses the influence of age on patterns of migration and offers an assessment which may be limited or unbalanced. Examples may lack detail or development. Response develops on a largely secure base of knowledge and understanding. Level 2 (4–7) Response shows general knowledge and understanding of migration with limited focus on the question (specifically the extent to which age influences patterns of migration). Response is mainly descriptive or explanatory with limited use of examples and understanding of the topic may be partial or inaccurate. Some concluding remarks. General responses without the use of example(s) will not get above the middle of Level 2 (6 marks). Level 1 (1–3) Response may broadly discuss migration but does not address the question and does not come to a convincing conclusion. Response is descriptive, knowledge is basic and understanding is poor. Level 0 (0) No creditable response.	15

Migration/Settlement dynamics

Question	Answer	Marks
6(a)	Describe <u>three</u> ways in which urban areas in LICs/MICs are changing as a result of rural-urban migration. May consider demographic, economic, social, environmental and political changes. Description of changes to the urban areas may include: • increased competition for land • overcrowding of existing housing/transport • creation of shanty towns (squatter settlements) • pressure on utility services • unemployment • increased crime • health issues • congestion • pollution • other Do not credit explanation as the command word is 'describe'. Credit a simple change 1 mark, and a developed way, with detail, depth or the use of an example, 2 marks or 3 marks to the maximum.	7

Question	Answer	Marks
6(b)	Explain the consequences of urban growth for rural settlements in LICs/MICs. Candidates may develop their own explanation within the context of LICs/MICs. The consequences may be positive and/or negative and may apply to social, economic, environmental or political aspects of rural settlements. Consequences may include: • sprawl and impact on rural fringe • land values/cost of housing • land ownership • planning and control • transport • infrastructure • housing availability • pollution • population loss • impact on rural economy/agriculture/services • other Award marks based on the quality of explanation and breadth of the response using the marking levels below. Level 3 (6–8) Response explains the consequences of urban growth for rural settlements in LICs/MICs thoroughly in a clear and focused manner. Response is well founded in detailed knowledge and strong conceptual understanding of the topic. Any examples used are appropriate and integrated effectively into the response. Level 2 (3–5) Response explains the consequences of urban growth for rural settlements in LICs/MICs in a limited way. Response develops on a largely secure base of knowledge and understanding. Examples may lack detail or development. Level 1 (1–2) Response comprises one or more points about urban growth which may not be carefully focused on the consequences for rural settlements in LICs/MICs. Knowledge is basic and understanding may be inaccurate. Examples are in name only or lacking entirely. Level 0 (0) No creditable response.	8

Question	Answer	Marks
6(c)	For your case study of <u>one</u> named city, assess the extent to which the challenges of providing <u>either</u> power infrastructure <u>or</u> transport infrastructure have been overcome. Candidates are free to develop their own approach to the question and responses will vary depending on the approach chosen. Whichever approach is chosen, essays which address the question and support their argument with relevant examples will be credited. There may be detailed consideration of a case study/one or more examples, or a broadly conceived response, drawing on several examples to illustrate the factors involved. The challenges may be social, e.g. access for all, economic, e.g. finance, environmental, e.g. sustainability, or political, e.g. governance. These challenges could be for the urban authorities, for the residents, the providers of the services or other groups and may be measured in cost, scale, severity, impact on wellbeing, etc. If both power and transport infrastructure are covered, mark both and award the best mark. For infrastructure in general or other types of infrastructure-generic, credit only up to max. 6 marks. Award marks based on the quality of the response using the marking levels below. Level 4 (12–15) Response thoroughly discusses the extent to which the challenges of providing either power infrastructure or transport infrastructure have been overcome in the chosen city thoroughly in a clear and well developed assessment. Examples used are appropriate and integrated effectively into the response. Response is well founded in detailed knowledge and strong conceptual understanding of the topic. Level 3 (8–11) Response discusses the extent to which the challenges of providing either power infrastructure or transport infrastructure have been overcome in the chosen city and offers an overall assessment which may be limited or unbalanced. Examples may lack detail or development. Response develops on a largely secure base of knowledge and understanding. Level 2 (4–7) Response shows general knowledge and understanding of the chosen city with limited focus on the challenges of providing either power infrastructure or transport infrastructure and whether the challenges have been overcome. Response is mainly descriptive or explanatory with limited use of examples and understanding of the topic may be partial or inaccurate. Some concluding remarks. General responses without the use of example(s) will not get above the middle of Level 2 (6 marks). Level 1 (1–3) Response may broadly discuss problems of one or more cities but does not address the question and does not come to a convincing conclusion. Response is descriptive, knowledge is basic and understanding is poor.	15

Question	Answer	Marks
6(c)	Level 0 (0) No creditable response.	