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**A-level
GEOGRAPHY**

7037/2

Paper 2 Human Geography

Friday 8 June 2018 Afternoon

Time allowed: 2 hours 30 minutes

At the top of the page, write your surname and other names, your centre number, your candidate number and add your signature.

[Turn over]



J U N 1 8 7 0 3 7 2 0 1

For this paper you must have:

- **the insert (enclosed)**
- **a pencil**
- **a rubber**
- **a ruler.**

You may use a calculator.

INSTRUCTIONS

- **Use black ink or black ball-point pen.**
- **Answer ALL questions in Section A AND Section B**
- **Answer EITHER Question 3 OR Question 4 OR Question 5 in Section C.**
- **You must answer the questions in the spaces provided. Do NOT write on blank pages.**
- **Do all rough work in this book. Cross through any work you do not want to be marked.**



INFORMATION

- The marks for questions are shown in brackets.
- The total number of marks available for this paper is 120.

**DO NOT TURN OVER UNTIL TOLD
TO DO SO**



[Turn over]



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FIGURES 1a and 1b are located on pages 2 and 3 of the insert.

FIGURE 1a shows the mean July temperatures at Faraday, a research station in Antarctica, between 1976 and 2016.

FIGURE 1b is a graph showing the annual mean temperature at Faraday between 1950 and 2016.

FIGURE 1c on pages 8 and 9, shows the mean July temperatures in rank order and the formula for calculating inter-quartile range.

[Turn over]



Position	Mean July temperature (°C)
1	-3.8
2	-3.9
3	-4.7
4	-4.8
5	-5.4
6	-5.7
7	-6.4
8	-8.5
9	-10.4
10	-11.8
11	-16.0



[Turn over]



[End of Section A]



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[Turn over]



SECTION B

Answer ALL questions in this section.

QUESTION 2 – Changing Places

0 2 . 1

Explain why an outsider perspective might give a different sense of place to an insider perspective. [4 marks]



[Turn over]



FIGURES 3a and 3b are located on pages 6, 7, 8 and 9 of the insert.

FIGURE 3a shows qualitative data measuring personal well-being across selected inner London boroughs.

FIGURE 3b shows average income of employed residents in each selected borough.

0 2 . 2

Analyse the data shown in FIGURE 3a and FIGURE 3b. [6 marks]

FIGURES 4a and 4b are located on pages 10 and 11 of the insert.

FIGURE 4a is a photograph of a slate-mining village in North Wales.

FIGURE 4b is a painting of a slate-mining village in North Wales.

0 2 . 3

Using FIGURE 4a, FIGURE 4b and your own knowledge, suggest how physical geography contributes to the character of a place. [6 marks]

0 2 . 4

‘The changing character of a place over time is more effectively represented by statistical and cartographical sources than artistic sources such as painting, poetry and photography.’

**With reference to either your local or distant place, critically assess the extent to which you agree with this statement.
[20 marks]**



[End of Section B]



SECTION C


Answer **ONE** question in this section.

Answer **EITHER** Question 3 **OR** Question 4 **OR** Question 5.

For the multiple-choice questions, completely fill in the circle alongside the appropriate answer.

CORRECT METHOD 

WRONG METHODS 

If you want to change your answer you must cross out your original answer as shown. 

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. 

[Turn over]



QUESTION 3 – Contemporary Urban Environments

03 . 1

Select the correct pair of consequences that result from the development of edge cities. [1 mark]

- | | | | |
|-----------------------|----------|---|---|
| <input type="radio"/> | A | Gentrification of inner-city areas | Social segregation |
| <input type="radio"/> | B | Deindustrialisation | Increased photo-chemical pollution |
| <input type="radio"/> | C | Loss of rural habitats | Gentrification of inner-city areas |
| <input type="radio"/> | D | Social segregation | Loss of rural habitats |



03 . 2

Choose the correct definition for urbanisation from the list below. [1 mark]

- A The increasing number of people living in towns and cities**
- B The increasing proportion of the population living in towns and cities**
- C The movement of people from inner city areas into the suburbs**
- D An increase in the number of megacities in a given region**

[Turn over]



03 . 3

Which of the following describes the process of decentralisation? [1 mark]

- A It is now cheaper to manufacture steel in China due to the nearby availability of raw materials and large low-cost supply of labour. This has resulted in the closure of steel plants such as Tata Steel in Redcar.**
- B In Notting Hill, individuals moved into large slum houses and began to redevelop them. House prices began to rise and landlords, realising they could make a quick profit, sold these houses to private property developers. There are also many boutiques and gastropubs in the area.**



- C** Decline in manufacturing in the UK has led to the rise of the service economy in urban areas. This has occurred due to the increased technology demands of a consumer society. As a result more people work in quaternary-based ICT industries than manufacturing.
- D** In the UK, the government encouraged the relocation of government agencies and public bodies away from London. Examples include the DVLA relocating to Swansea and the BBC moving to Media City in Salford.

[Turn over]



03 . 4

Which of the following is an accurate description of characteristics of the water cycle in an urban area? [1 mark]

- A Increased infiltration, increased precipitation, increased baseflow**
- B Reduced throughflow, decreased surface runoff, reduced precipitation**
- C Decreased infiltration, increased surface runoff, reduced throughflow**
- D Decreased surface runoff, decreased infiltration, decreased baseflow**



FIGURES 5a and 5b are located on pages 12, 13, 14 and 15 of the insert.

FIGURE 5a shows a map of Portland, a city in north-west USA.

FIGURE 5b shows the urban heat island effect for Portland in June 2015.

0 3 . 5

Analyse the data shown in FIGURE 5a and FIGURE 5b. [6 marks]

[Turn over]



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[Turn over]



FIGURES 6a, 6b, 6c and 6d are located on pages 16, 17 and 18 of the insert.

FIGURES 6a and 6b are images of Vancouver, a city in western Canada.

FIGURE 6c shows the ethnicity of Vancouver residents.

FIGURE 6d shows employment in Vancouver by sector in 2015.

03 . 6

**Using FIGURES 6a, 6b, 6c, 6d and your own knowledge, assess the extent to which you agree that Vancouver is an example of a post-modern western city.
[9 marks]**



[Turn over]



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[Turn over]



QUESTION 4 – Population and environment**04 . 1****Morbidity can be defined as: [1 mark]**

- A the prevalence of disease and poor health within a specific area or population**
- B the number of deaths per 1000 people per year**
- C the biological age of someone's body regardless of their chronological age**
- D a medical condition that is non-infectious and non-transmissible in young people**



04 . 2

Which of the following population data would be appropriate to present as a dot map? [1 mark]

- A The number of refugees moving from Syria to Greece**
- B The percentage of residents who live below the poverty line in each region of England**
- C The distribution of people of Afro-Caribbean origin across London**
- D The birth rate of each country in Europe**

[Turn over]



04 . 3

Choose the example from the list below that supports a Malthusian perspective on population growth. [1 mark]

- A The Chinese government launched the one-child policy in 1979. Families were fined if they broke the rules. This policy resulted in many families becoming bankrupt but it prevented over 400 million births.**
- B The development of miracle rice crops in the 1960s such as IR8 in India tripled the yields of rice. This reduced the number of famines despite an increasing population growth rate of over 2% during the 1960s and 1970s.**



- C** The Water Project in Uganda has provided borehole wells and hand pumps to many villages. The use of appropriate technology means that the villages can maintain the wells themselves. As a result, death rates from diseases such as typhoid have fallen.
- D** In the 1980s there were a series of famines in Ethiopia. These famines occurred as a result of failed harvests due to drought and population pressure. There was also a civil war which prevented the distribution of food aid.

[Turn over]



04 . 4

Which of the following statements is true of the concept of the first Demographic Dividend? [1 mark]

- A It occurs in stage 5 of the demographic transition model as death rates exceed birth rates. This results in a smaller workforce that has to support an ageing population which drains resources.**
- B It occurs in stage 2 of the demographic transition model when birth rates are very high and death rates fall, meaning that more money is invested into healthcare.**



- C It occurs in stage 3 of the demographic transition model as the dependency ratio falls and there is more income per person.
- D It occurs in stage 4 of the demographic transition model when the workforce begins to decline and there are more elderly dependents who need greater levels of healthcare.

[Turn over]



FIGURE 7a, on page 20 of the insert, shows the predicted effects of a 3 °C increase in temperatures on crop yields by 2050.

FIGURE 7b, on page 21 of the insert, shows the percentage of the population by country who were undernourished in 2013.

0 4 . 5

Analyse the data shown in FIGURE 7a and FIGURE 7b. [6 marks]



04 . 7

Assess the extent to which population change in one country you have studied fits the demographic transition model.
[9 marks]



04 . 8

‘The role of international agencies and NGOs in combating disease will increasingly need to focus on the health impacts resulting from global environmental change.’

To what extent do you agree with this statement? [20 marks]

[Turn over]



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QUESTION 5 – Resource Security**05 . 1**

Which of the following is a correct list of gases that are major contributors to the enhanced greenhouse effect? [1 mark]

- A Methane, helium, oxygen**
- B Methane, hydrogen, hydrofluorocarbons**
- C Methane, hydrofluorocarbons, carbon dioxide**
- D Methane, carbon dioxide, hydrogen**

[Turn over]



05 . 2**What is an inferred resource? [1 mark]**

- A** A resource where the quantity and grade can be estimated with confidence using inspection sites that are situated far apart. The economic viability can be confidently assessed and planned for.
- B** A resource where the grade or quality can only be estimated on the basis of limited geological sampling. There is insufficient data to justify expenditure on exploiting the resource.



- C** A resource where the quality and grade of the resource can be measured accurately. A preliminary feasibility study indicates that it is economically viable and extraction is justified.
- D** A resource that has a finite supply. It is economically viable and extraction is justified. Confidence in the supply is measured by wide geological sampling.

[Turn over]



05 . 3

Which of the following is an example of a local water conflict? [1 mark]

- A** In 2015 Islamic State militants fighting in Iraq and Syria shut off and redirected water flows below the Ramadi Dam to enable the militants to cross the Euphrates. As a result, there are water shortages for hundreds of kilometres downstream, affecting thousands of people.
- B** In 2016, in the Peruvian town of Ocucaje, farmers set fire to plastic water pipes. These pipes were installed by a company that was diverting water 12 km from water wells in Ocucaje to irrigate grapes for export.



- C** In 2014 Russia took control of the region of Crimea from Ukraine. Russia accused Ukraine of cutting off the water supply in the North Crimea Canal. This led to water shortages for Crimea's farmers who grew maize, rice and grapes.
- D** In 2011, the Ethiopian government announced plans to build the 'Grand Ethiopian Renaissance Dam', a \$4.1 billion hydroelectric dam on the Blue Nile near the border with Sudan. The potential impact on water supplies, particularly downriver, is a grave concern in Egypt.

[Turn over]



05 . 4

Which of the following impacts would NOT be considered as part of an Environmental Impact Assessment (EIA) in relation to resources? [1 mark]

- A Dust and particulate matter from mining and vehicle movements**
- B Future possibilities for the site once the resource is exhausted or the quarry is closed**
- C Degradation of the landscape**
- D The economic cost of transporting the ore to the processing site**



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[Turn over]



FIGURES 9a, 9b and 9c are located on pages 26, 27, 28 and 29 of the insert.

FIGURE 9a shows greenhouse gas emissions per capita in selected European countries in 2015.

FIGURE 9b shows the % of electricity generated from renewable sources in selected European countries in 2015.

FIGURE 9c shows the selected countries.

0 5 . 5

Analyse the data shown in FIGURE 9a and FIGURE 9b. [6 marks]



FIGURES 10a and 10b are located on pages 30, 31, 32 and 33 of the insert.

FIGURE 10a shows a hydro-electric scheme in Scandale Beck, an upland river in the Lake District.

FIGURE 10b shows electricity generation for the scheme in selected months between 2015 and 2017.

0 5 . 6

Using FIGURE 10a, FIGURE 10b and your own knowledge, assess the extent to which renewable energy can be used to achieve energy security. [9 marks]

[Turn over]



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END OF QUESTIONS

For Examiner's Use	
Section	Mark
A	
B	
C	
TOTAL	

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