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ANSWER IN THE SPACES PROVIDED**

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**Section A**

**Global systems and global governance**

Answer **all** questions.

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**0 1** . **1** Explain how **one** transnational corporation (TNC) has contributed to the globalisation of the world's economy.

**[4 marks]**

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**Question 1 continues on the next page**

Figures 1, 2 and 3 show climatic statistics for three places in Antarctica.

**Figure 1**

**Temperatures (degrees Celsius)**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean Annual temperature
<b>1</b>	-32	-44	-58	-65	-66	-65	-67	-68	-66	-57	-43	-42	-56
<b>2</b>	-28	-41	-54	-57	-57	-58	-60	-60	-60	-51	-38	-28	-49
<b>3</b>	0	-6	-14	-17	-19	-19	-22	-23	-21	-16	-7	-1	-14

1 = Vostok (78 degrees S - near to the 'Pole of Inaccessibility' - the point on Antarctica that is furthest from the sea in any direction). Height 3448 metres

2 = Amundsen-Scott (90 degrees S - the base at the South Pole). Height 2880 metres

3 = McMurdo (79 degrees S - on the coast of the Ross Sea). Height 24 metres

**Figure 2**

**Precipitation (mm water equivalent)**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
<b>1</b>	0.1	0	0.7	0.5	0.4	0.5	0.6	0.7	0.3	0.2	0.1	0	4.1
<b>2</b>	0.2	0.3	0	0	0.1	0	0	0	0.1	0	0	0.1	0.8
<b>3</b>	15	21.2	24.1	18.4	23.7	24.9	15.6	11.3	11.8	9.7	9.5	15.7	200.9





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**Section B**

**Changing places**

Answer **all** questions.

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**0 2** . **1** In the context of place, explain the meaning of 'endogenous factors' and 'exogenous factors'.

**[4 marks]**

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**Figure 5a** was painted in 1935. It shows the High Level Bridge across the River Tyne, and some housing and industry in Gateshead.

**Figure 5b** is a photograph of the same place taken in April 2015.

**Figure 5a**

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**Figure 5b**

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**Section C**

Answer **one** question.

Answer **either** Question 3 **or** Question 4 **or** Question 5.

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**Question 3 Contemporary urban environments**

**0 3** . **1** Outline characteristics of an area undergoing urban resurgence.

**[4 marks]**

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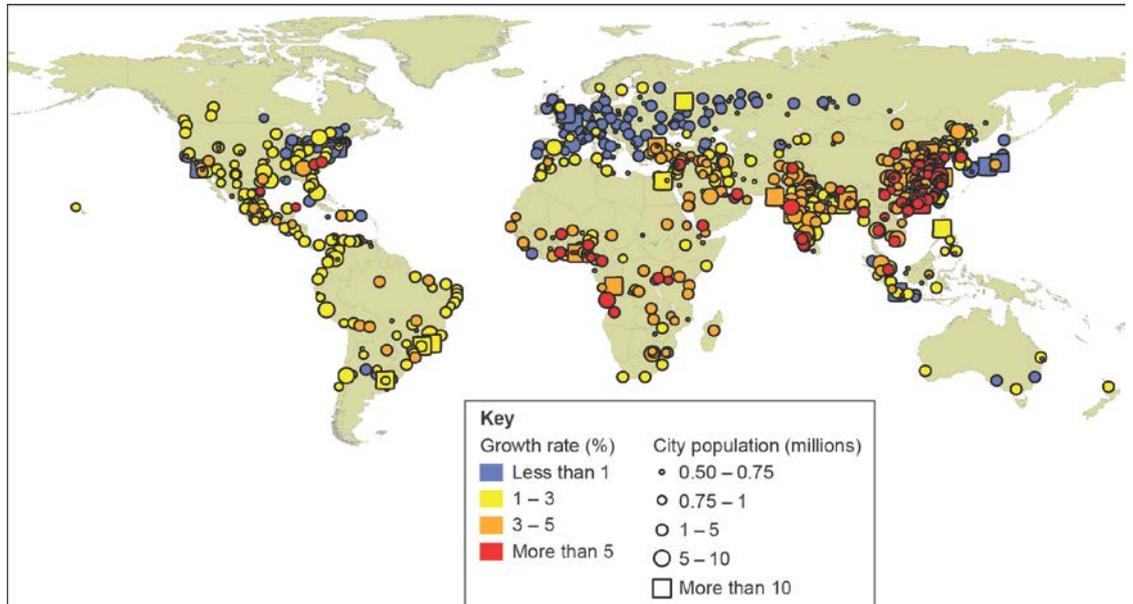
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**Question 3 continues on the next page**

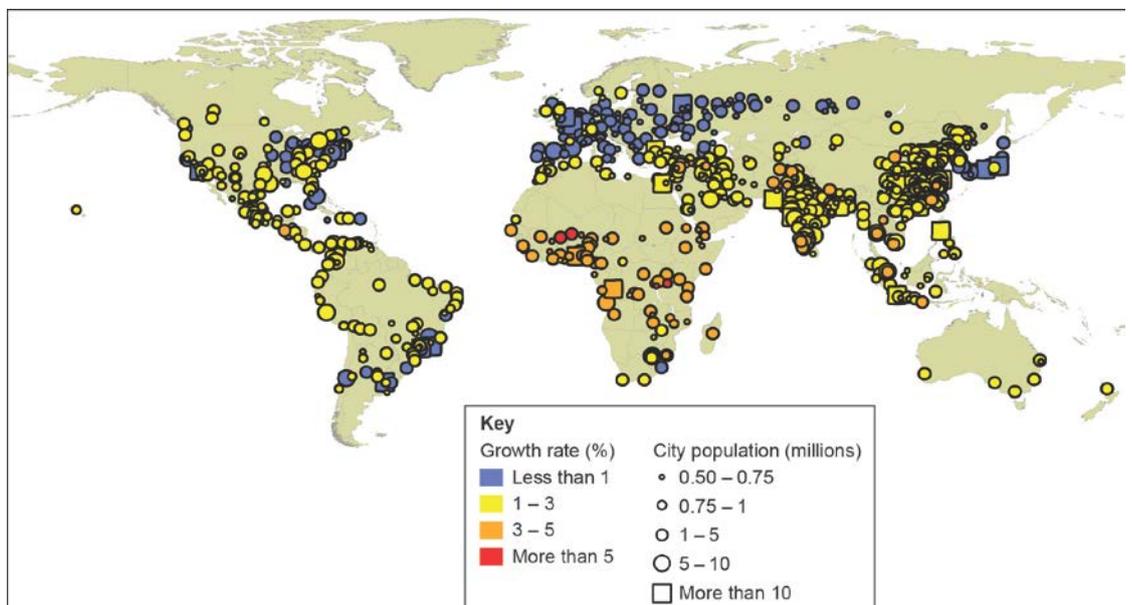
**0 3 . 2** Analyse changes in the world pattern of urbanisation shown in **Figure 7** and **Figure 8**.

[6 marks]

**Figure 7 - 1990–2015**



**Figure 8 - 2015–2030**





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**0 3 . 3** **Figure 9** shows information about Babcock Ranch, a proposed sustainable city in Florida, USA.

**Figure 9**

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Figure can be viewed at: <https://babcockranch.com/>**

**Factfile:**

- Babcock Ranch will be the first city in the world powered by solar energy.
- Electric vehicles will plug in to recharge at convenient recharging stations all over the community.
- Smart Home technology will let residents use equipment in their homes at maximum efficiency.
- The city will be connected by an extensive system of greenways and cycle paths.
- Homes, parks, offices and shops will all be within walking distance. 7000 hectares of land in the new city will be reserved for natural parks and lakes.

**Question 3 continues on the next page**









**Question 4 Population and the environment**

**0 4** . **1** Outline reasons why salinisation of soil occurs.

**[4 marks]**

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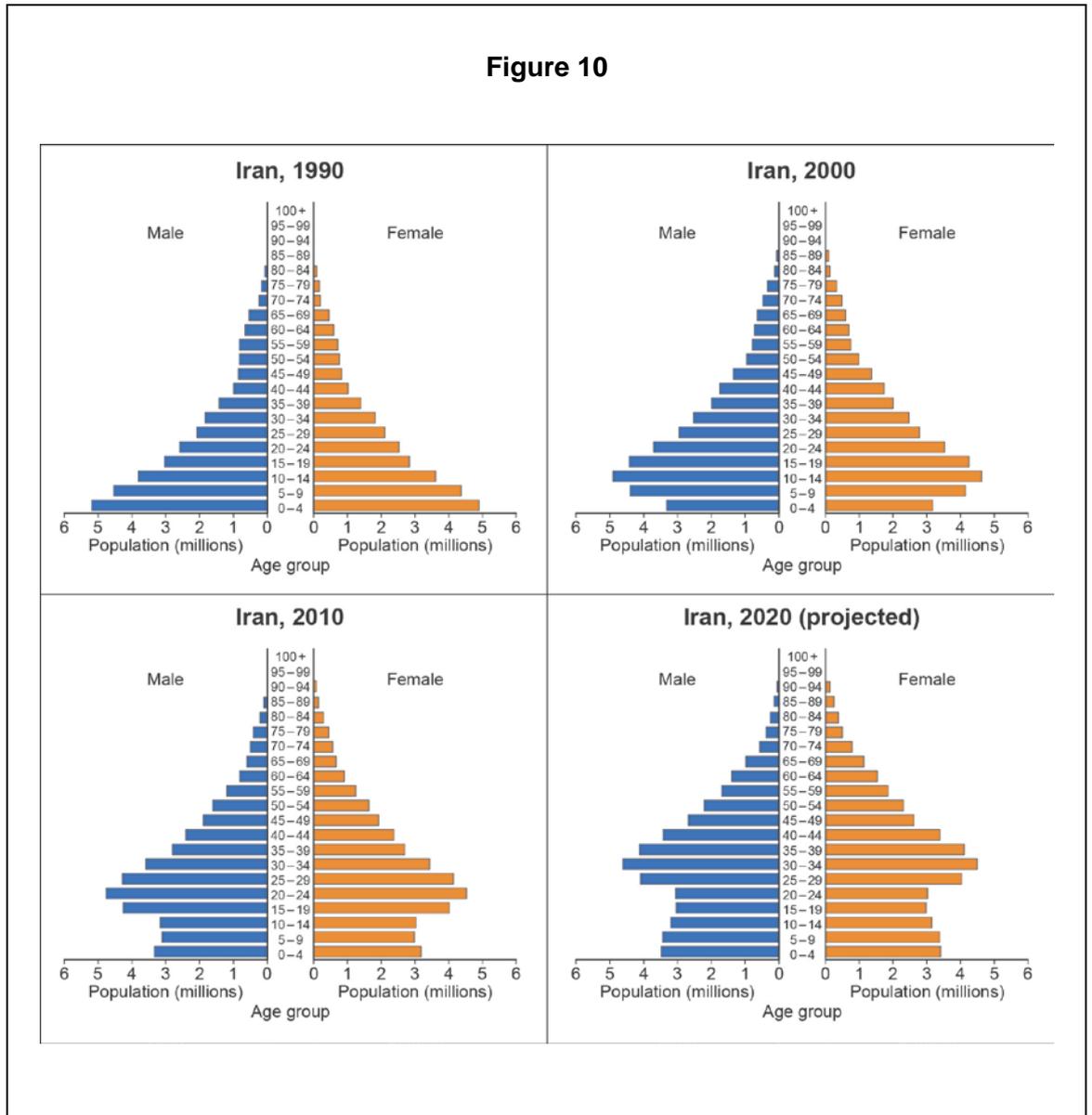
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0 4 . 2 Figure 10 shows the changing population structure of Iran.















**Question 5 Resource security**

**0 5** . **1** Explain the concept of resource peak.

**[4 marks]**

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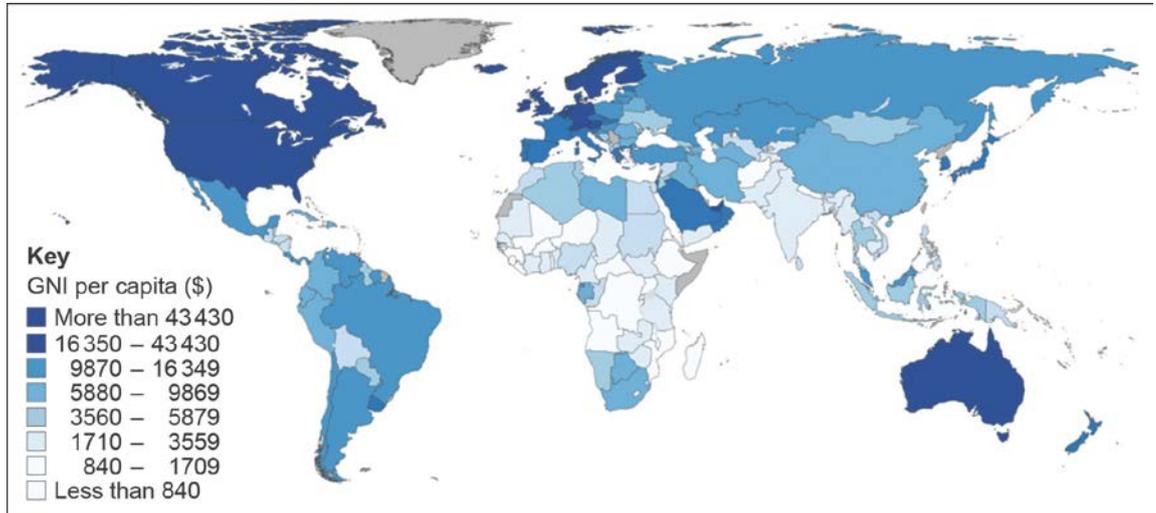
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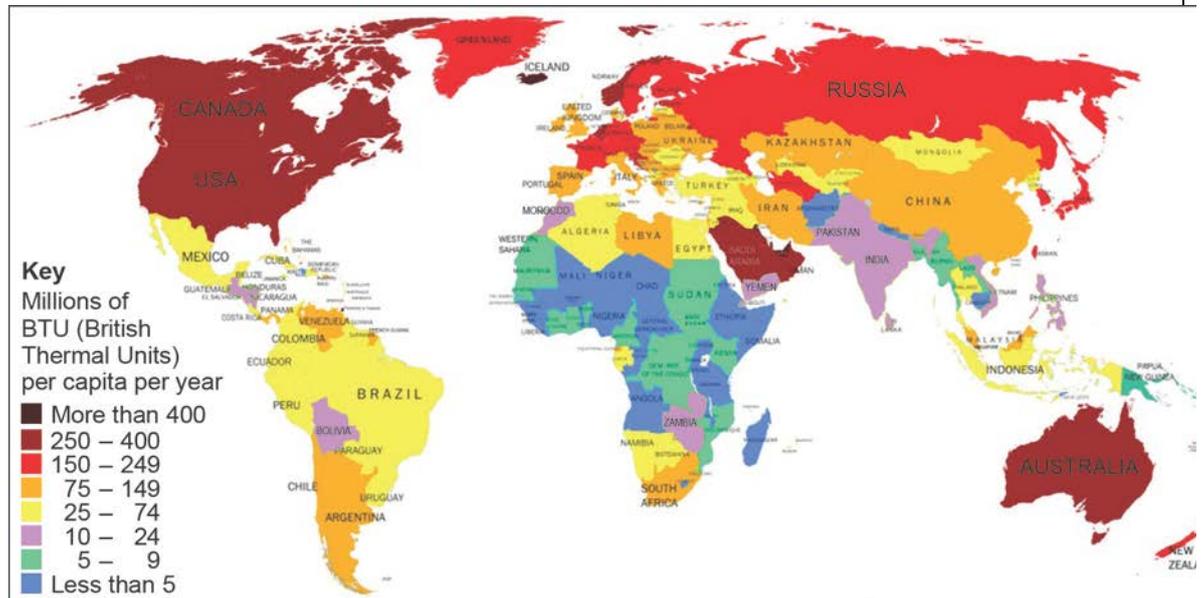
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- 0 5** . **2** **Figures 12a and 12b** are maps showing GNI per capita and Energy consumption per capita.

**Figure 12a**

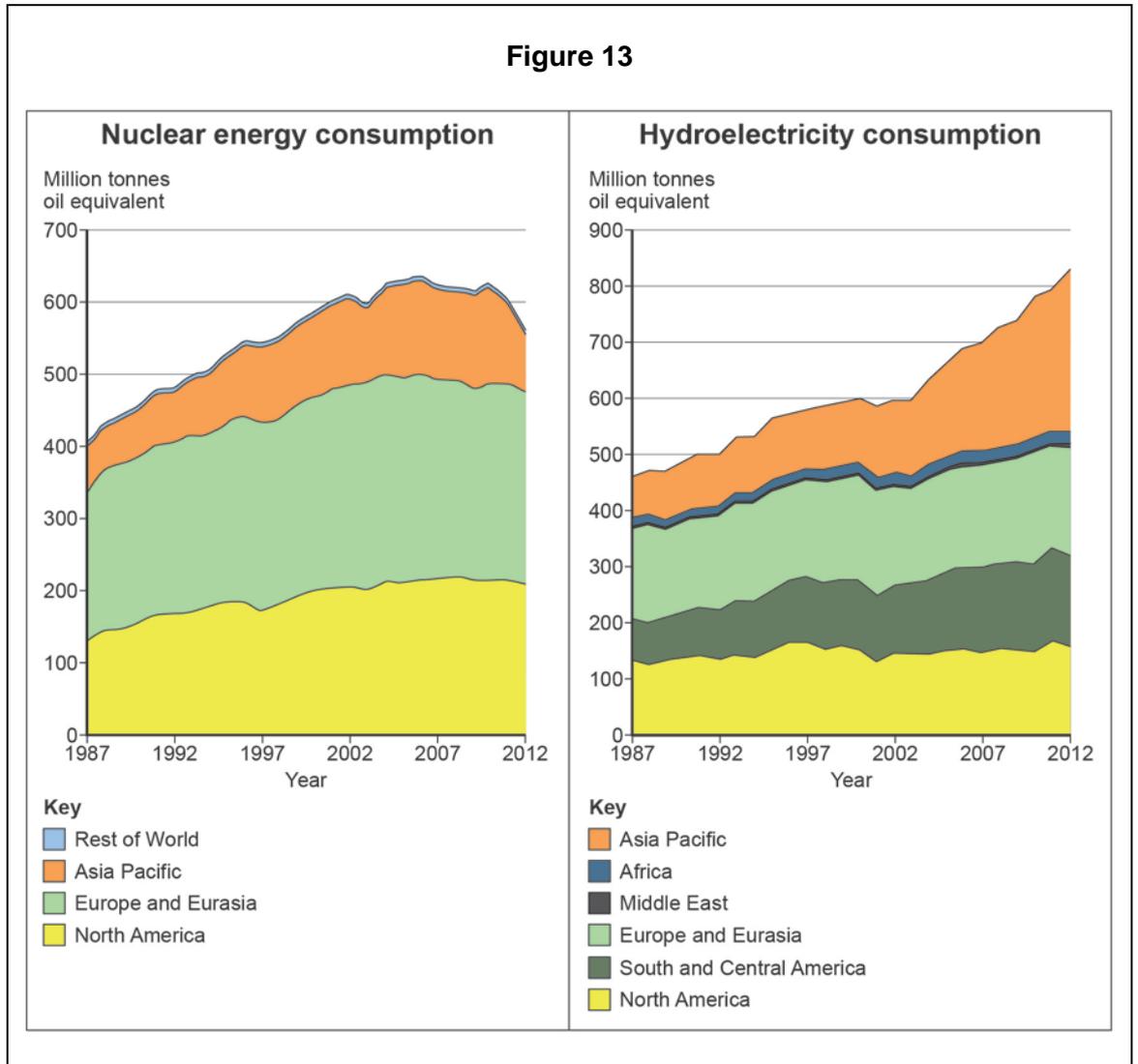


**Figure 12b**





**0 5 . 3** **Figure 13** shows trends in nuclear power and hydroelectricity consumption from 1987-2012.



With reference to **Figure 13** and your own knowledge, assess the success of strategies to increase energy supply through developing nuclear power and renewable energy.

**[9 marks]**

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