

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**

Section A

Global systems and global governance

Answer **all** questions.

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

[4 marks]

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
1	-32	-44	-58	-65	-66	-65	-67	-68	-66	-57	-43	-42	-56
2	-28	-41	-54	-57	-57	-58	-60	-60	-60	-51	-38	-28	-49
3	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
1	0.1	0	0.7	0.5	0.4	0.5	0.6	0.7	0.3	0.2	0.1	0	4.1
2	0.2	0.3	0	0	0.1	0	0	0	0.1	0	0	0.1	0.8
3	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

Question 1 continues on the next page

Section B

Changing places

Answer **all** questions.

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

[4 marks]

Question 2 continues on the next page

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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

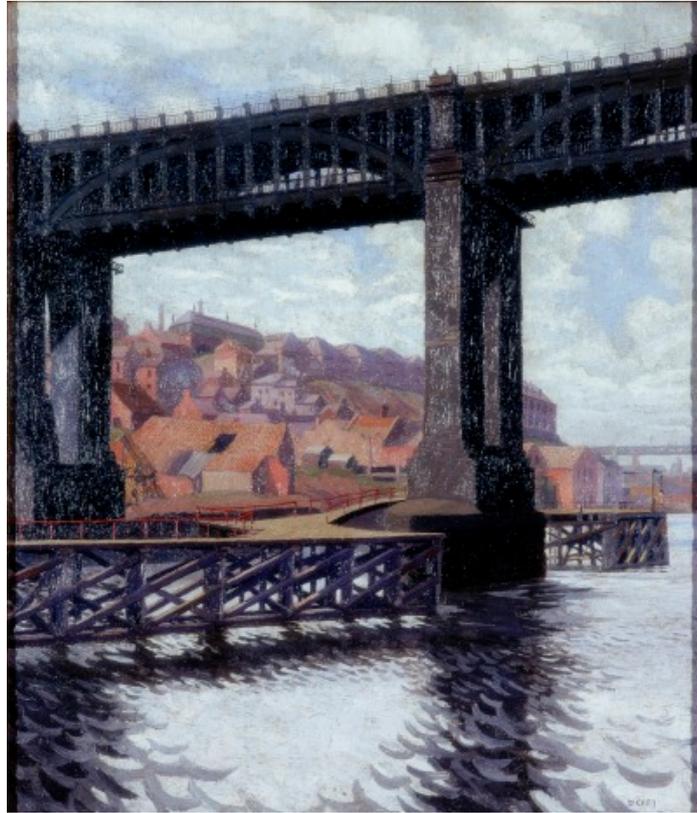


Figure 5b



Section C

Answer **one** question.

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

Question 3 Contemporary urban environments

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

[4 marks]

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

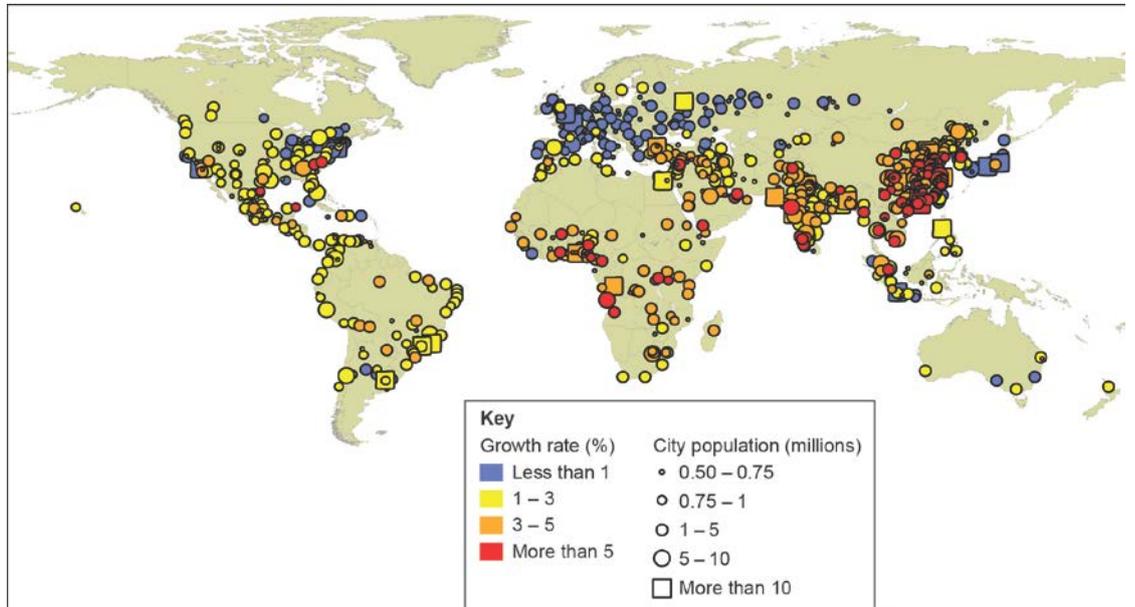
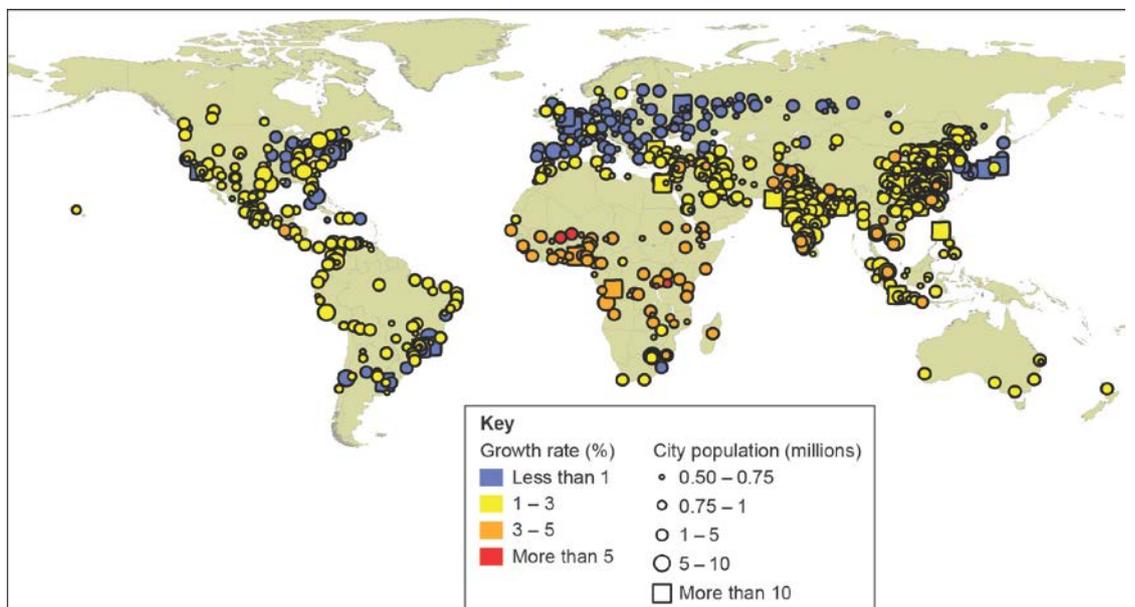


Figure 8 - 2015–2030



03 . 3

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

Figure 9





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

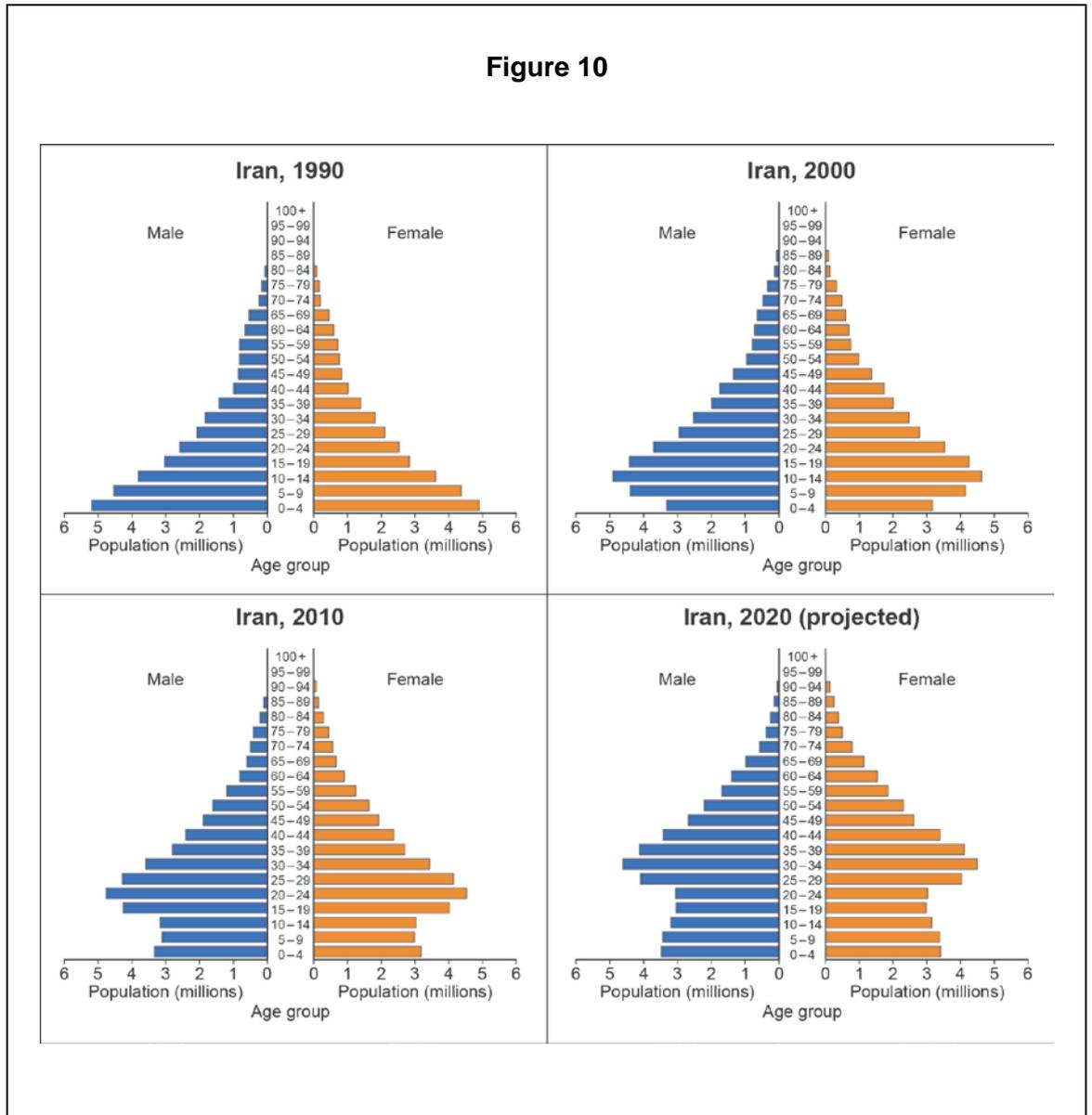
0 4 . **1** Outline reasons why salinisation of soil occurs.

[4 marks]

Question 4 continues on the next page

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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]

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

Figure 12a

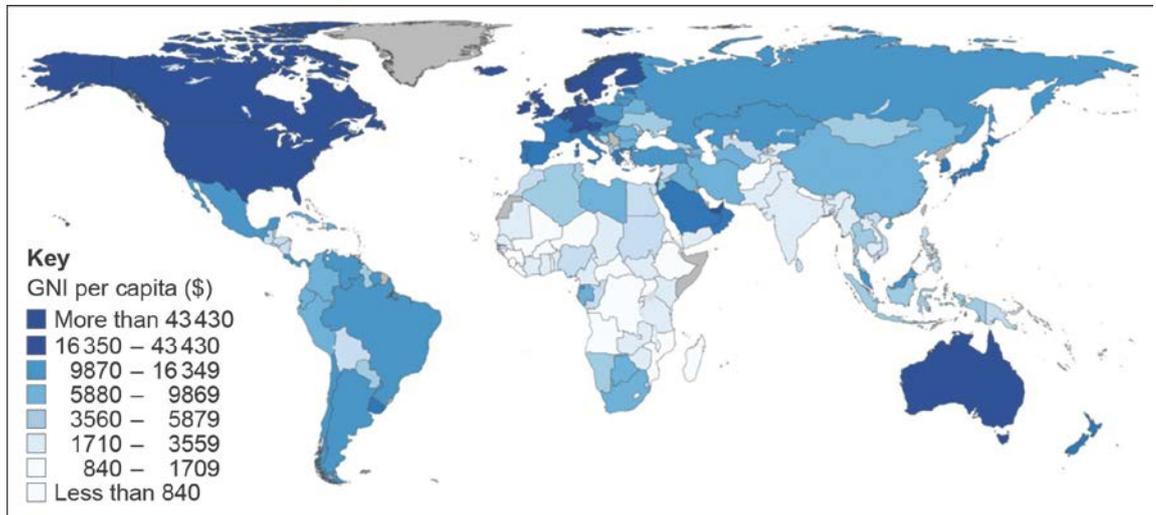
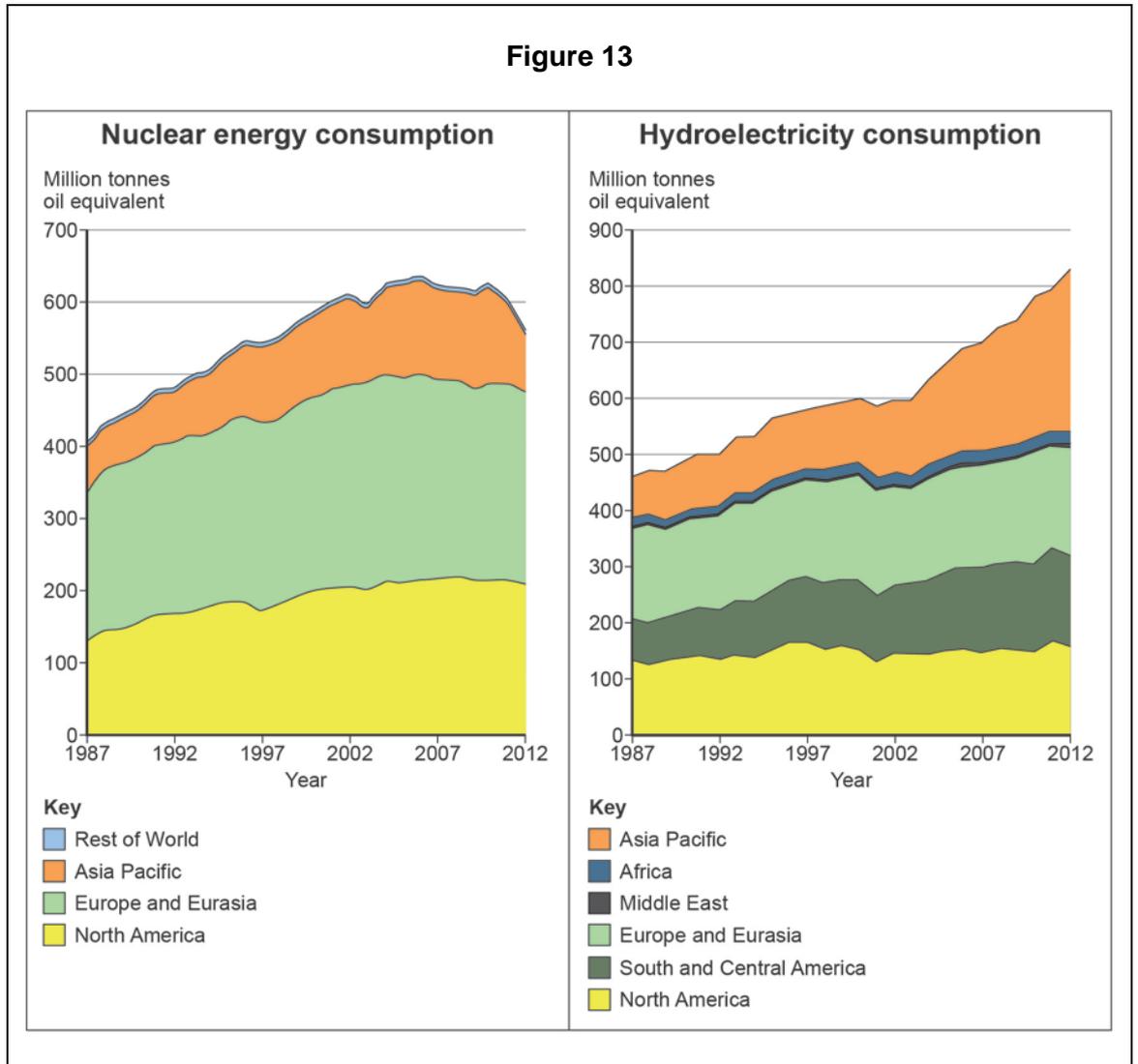


Figure 12b



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]
