

SECTION A

Answer **EITHER** Question 1 **OR** Question 2.

If you answer Question 1 put a cross in this box .

1. (a) Study Figure 1 which shows past changes and possible future trends for world population growth and resource production.

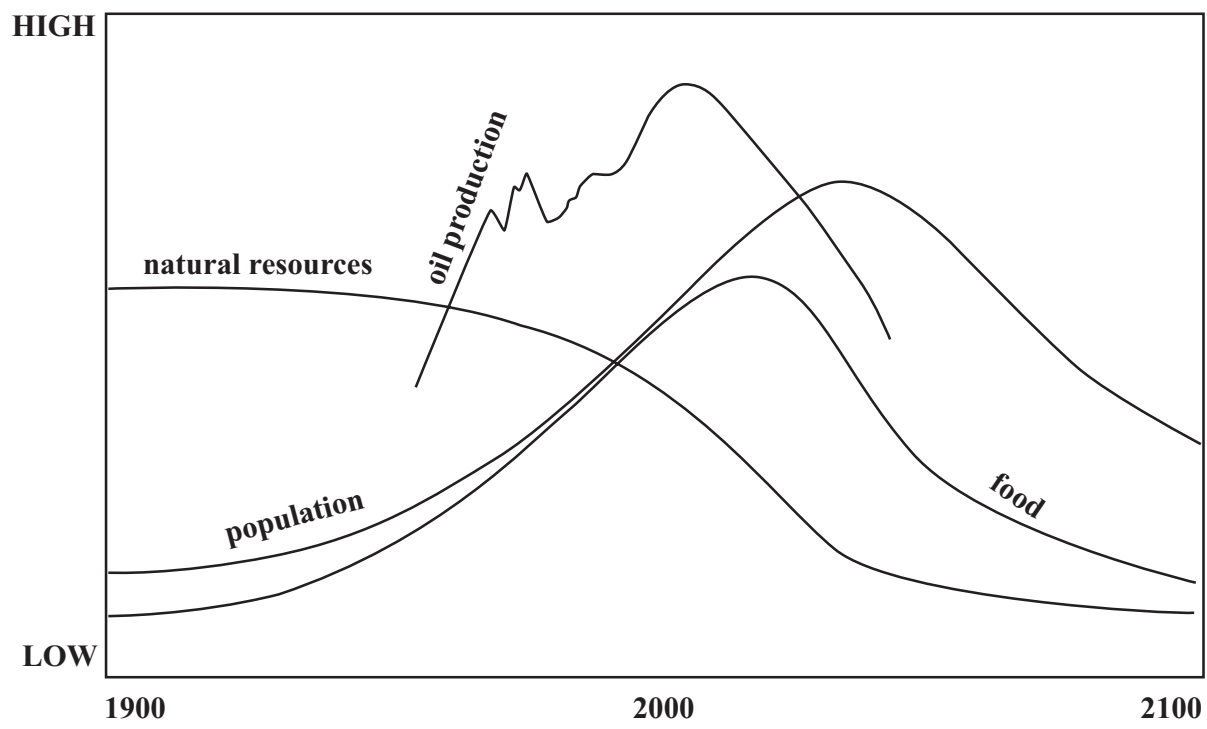


Figure 1

(Source: Donella Meadows et al, *Beyond the Limits*, Earthscan, 1992. Adapted in 2003 by <http://dieoff.org>)

- (i) Describe how world population changes between 1900 and 2100.

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(ii) Put a cross in the box next to the writer who believed that population growth stimulates new resource development.

Thomas Malthus Esther Boserup Walter Christaller

(1)

(iii) Suggest why the predictions in Figure 1 might **underestimate** the amount of natural resources, including oil reserves, that remain after 2000.

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(iv) Suggest possible reasons for the steep rise in food production between 1900 and 2000.

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(b) Outline reasons why population density varies from place to place within rural areas.

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(c) Describe and explain the impact of changing birth and death rates on the population pyramid of a named country.

Named country

You may use a diagram to help your answer.

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(Total 20 marks)

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If you answer Question 2 put a cross in this box .

2. (a) Study Figure 2 which shows population density profiles for an MEDC city in the years 1850 and 2000.

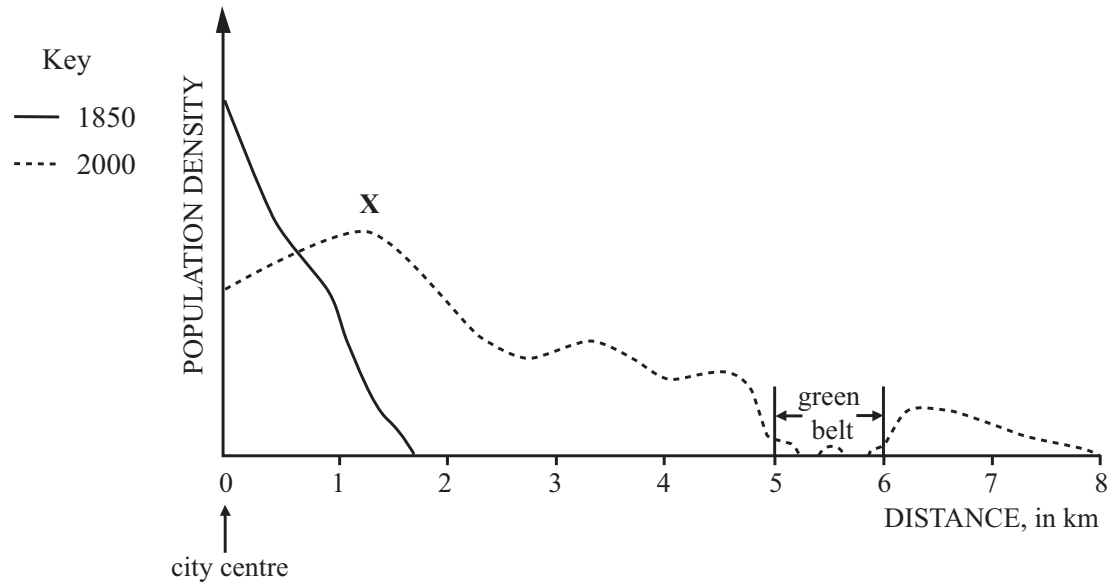


Figure 2

- (i) Describe the changes in the population density profile between 1850 and 2000.

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(ii) Explain how the changes in population density may have been influenced by:

1. government planning

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2. rising incomes.

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(iii) Suggest possible reasons for the high density at point X in 2000.

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(b) Outline the positive and negative effects of an ageing population on national economic growth.

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(c) Describe and explain how the **rate of natural increase** changes during the different stages of the Demographic Transition Model.

You may use a diagram to help your answer.

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(Total 20 marks)

Q2

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TOTAL FOR SECTION A: 20 MARKS



SECTION B

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

If you answer Question 3 put a cross in this box .

3. (a) Study Figure 3 which shows a small settlement in a rural area of Scotland.



(Source: Courtesy of Dr Simon Oakes)

Figure 3



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(i) State two **site** characteristics of this settlement.

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(ii) State two **non-residential functions** of this settlement.

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(iii) Outline two reasons why the **percentage** of elderly people is currently increasing in settlements such as this.

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(b) Describe the differences between **low-order** and **high-order** goods (or services).

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(c) Explain the changes that take place within the **zone of transition**.

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(d) Describe and explain the differences that often exist between the land-use patterns of MEDC and LEDC cities.

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If you answer Question 4 put a cross in this box .

4. (a) Study Figure 4 which shows an area near the centre of Sao Paulo, Brazil.



Figure 4

(Source: *National Geographic*, November 2002)



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(i) Identify the main characteristics of the urban environment shown.

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(ii) Explain **one** of the characteristics that you have identified in (a) (i).

Named characteristic

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(iii) Outline the problems typically associated with living in areas such as this.

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(b) (i) Explain what is meant by the **function** of a settlement and give two examples.

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Example 1:

Example 2:

(3)

(ii) Briefly outline three features of **settlement hierarchies**.

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SECTION C

Answer **EITHER** Question 5 **OR** Question 6.

If you answer Question 5 put a cross in this box .

5. (a) Study Figure 5 which shows the birth-places of descendants of a couple born in the West Midlands during the 1800s.

The descendants of William Lippett (born 1801) and Mary Lippett (born 1803)

	Name	Born	Settlement where born	Settlement status	County of birth
Children of William and Mary	Eliza Lippett	1827	Pensax	Hamlet	Worcestershire
	William Lippett	1828	Pensax	Hamlet	Worcestershire
	Ann Lippett	1832	Pensax	Hamlet	Worcestershire
	Susan Lippett	1836	Pensax	Hamlet	Worcestershire
Grandchildren of William and Mary	James Lippett	1853	Shrawley	Hamlet	Worcestershire
	William Bourne	1853	Pensax	Hamlet	Worcestershire
	Melvin Bourne	1854	Pensax	Hamlet	Worcestershire
	Ephraim Lippett	1857	Shrawley	Hamlet	Worcestershire
	Mary Lippett	1863	Shrawley	Hamlet	Worcestershire
	Hannah Lippett	1864	Bewdley	Town	Worcestershire
	Charles Lippett	1865	Pensax	Hamlet	Worcestershire
	Alice Garner	1866	Bewdley	Town	Worcestershire
Great-grandchildren of William and Mary	Arthur Bourne	1871	Pensax	Hamlet	Worcestershire
	Elizabeth Lippett	1872	Leeds	City	Yorkshire
	Betsy Lippett	1873	Leeds	City	Yorkshire
	Mary Bourne	1873	Pensax	Hamlet	Worcestershire
	William Bourne	1875	Worcester	City	Worcestershire
	Charles Bourne	1875	Bewdley	Town	Worcestershire
	Edward Lippett	1877	Leeds	City	Yorkshire
	Joseph Lippett	1878	Leeds	City	Yorkshire
	Ann Lippett	1880	Leeds	City	Yorkshire
	Jonathan Bourne	1882	Worcester	City	Worcestershire
	Susan Garner	1901	Bewdley	Town	Worcestershire
	William Garner	1904	Bewdley	Town	Worcestershire

Figure 5



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(i) Describe two changes in the pattern of birth-places.

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(ii) State and outline two different **push** factors that might account for the migration of family members.

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(b) Identify and explain how two technological changes have influenced **rates** of migration.

Technological change 1

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Technological change 2

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(c) Describe and explain the ways in which the society and culture of MEDCs have been changed by international migration.

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(d) Using examples, describe and explain how the **population characteristics of international migrants** vary from one group to another.

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Q5

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If you answer Question 6 put a cross in this box ☒.

6. (a) Study the Ordnance Survey map extract (1:50,000) which shows St Kilda, an island lying 66 km to the west of the British Isles that was entirely abandoned by its 36 inhabitants in 1930.

(i) Using map evidence, identify three **physical** features of the island that may have encouraged the people to leave.

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(ii) Outline how **demographic** and **social** factors may also have contributed to the abandonment of the island.

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(iii) Suggest how the environment of St Kilda may have changed since the island was abandoned.

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(b) Outline the varying **economic consequences** of international migration on the **countries of origin**.

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(c) Using examples, describe and explain how **obstacles** to migration have sometimes strengthened and sometimes weakened over time.

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Q6

TOTAL FOR SECTION C: 20 MARKS

TOTAL FOR PAPER: 60 MARKS

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