



GCE Geography (6472) Paper 1

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QUESTION 1AStudy Figure 1 on page 2 in the ResourceBooklet. It shows a farming area in Canada in1970 and 2005.	B The graph below shows the results of a survey of young people in rural Canada.	C With reference to examples of rural areas, examine how decision makers have managed the problems resulting from one of the following: The development of recreation and tourism The extraction of resources Intensive agriculture (10)
 (i) In 1970 it was an area of mixed commercial farming. Explain the meaning of this term (2) Arable & Pastoral indicated(accept crops and animals) <i>O</i> For profit / sale <i>O</i> 2x1 marks (ii) Describe and suggest reasons for the changes in agricultural landuse shown. (5) Description: large farms to the west focus more on wheat & oilseed (barley, oats, cattle, declined) with larger fields. New crops (potatoes, bison, lentils) and smaller fields in east. More wetlands. Larger fields. Explanation: Specialised farms benefit from economies of scale and specialised equipment (harvesting); suits mechanised farming/ economies of scale. Diversified areas taking advantage of niche (higher profits e.g. bison)) and new markets; spreading risk; possible grants for wetland creation and conservation. Other realistic reasons. Do not accept nos. of farms/settlement. L3 (5) Detailed desc of change with reasons for changes; range of explanations. L2 (3-4) Some desc and exp but less complete / unbalanced. L1 (1-2) Basic desc; few if any reasons. Max 2 desc 	 (i) Describe and suggest reasons for the perceptions shown in the graph. (6) Rural perceived as very safe, and therefore good for families; more private and easier to purchase a home (lower cost); urban services strongly perceived as better (agglomeration); economic opportunities much higher due to threshold for Colleges and HE and concentration of jobs (choice; higher wages) L3 (5-6) Detailed desc expect figures; range of explanations, rural and urban. L2 (3-4) Some desc and exp but less complete. Max 3 desc only. L1 (1-2) Basic desc; few if any reasons (ii) Using examples, suggest how the negative perceptions shown in the graph might be improved (4) Ideas likely to focus on improved service provision and mobility; mopeds in Cumbria / dial-a-bus schemes; rural job opportunities such as Eden Project; construction of village sports facilities or creation of clubs; rural internet access to increase 	 Intensive agriculture (10) Answers at L2 and above should focus on management not just problems. <u>REC & TOURISM</u>: Zoning and the creation of honeypots (Grasmere); parking and traffic control including park and ride services; footpath management using local materials to restore eroded paths; management and zoning of coral reefs; development of ecotourism in Africa or Ecuador. Planning regulations associated with NPs. <u>RESOURCES</u>: Can be water, mining, forestry or a mix; replanting and RIL for forestry (Kielder), use of FSC mark for sustainable timber, zoning and creation of reserves to protect some areas. Management to increase diversity in softwood stands. Details pf planning enquiry for Isle of Harris superquarry; management of noise, traffic and runoff for quarrying, NP planning regulations e.g. Kielder; overabstraction of groundwater (Ashwell). <u>INT AGRICULTURE</u>: eutrophication and management e.g. Norfolk Broads NP; creation of NSAs as part of the CAP; farm woodland schemes and setaside to reduce biodiversity loss; organic farming as a chemical free alternative; soil conservation using shelter belts and no-till farming in East Anglia / Prairies.
 (iii) Describe, and suggest reasons for the changes to the settlement pattern that occurred between 1970 and 2005. (3) More sparse / less dense O town has grown O; Fewer farms Odue to farm mergers O and migration to central place O 2 marks max for desc only or reasons only. 	social contacts. Distance learning courses to improve employability skills. Examples can be any rural areas. L2 (3-4) Exemplified, specific schemes or ideas. Likely to be located for 4. L1 (1-2) One or two general suggestions only	 L3 (9-10) Detailed, structured account; rocus on management; specific located examples. L2 (5-8) Some structure in a satisfactory account; uses some examples; more general and increasingly about problems. Max 7 if one place only. L1 (1-4) Basic general statements; problems only. Lacks exemplification.

QUESTION 2AStudy Figure 2 on page 3 in the ResourceBooklet. This shows the pattern of food shortagesin rural Sudan, 2003.	B Study the drawing below. It is about an LEDC rural development project for collecting and storing rainwater.	C Referring to any named rural areas, examine the factors causing either an increase or a decrease in population (10)
 (i) The majority of farmers in LEDCs such as Sudan are subsistence farmers. Define this term.(2) They farm to feed themselves • with surplus sold • or traded OR none to sell / trade 1 mark for basic point 1 mark for extension (ii) Using data from Figure 2 (a) Describe the pattern of food shortages in rural Sudan in 2003. (4) North/Central areas have largest shortages (up to 300,000 N Darfur) resulting from civil war; southern areas have smaller numbers (100-200,000) resulting from drought; in between is an area of refugees/migrants (plus mixed) with some provinces up to 300,000 having shortages. L2 (3-4)Detailed desc across the map quoting or making use of data. L1 (1-2) Basic desc; lacks precision and pattern (iii) Suggest how civil war and refugee migration may have contributed to the food shortages shown in Figure 2. (4) Disruption to food supply by war (road blocks, deliberate destruction of crops, loss of male labour). Migration could result from both conflict in the north and drought in the south. Migrants add to population in refugee areas adding to pressure on food supplies. • mark for a basic point, 2 marks for a more extended statement for both war and migration. Max 3 if only war / migration. 	 (i) The strategy shown above is an example of sustainable rural development. With reference to the drawing, explain what this means. (4) Any points from sustainable/suitability for rural development. The basic resource is freely available/environmentally friendly and the construction resources are low cost; technology used is simple/appropriate and uses local skills and materials; the system should last for years, is easy to maintain, The scheme improves QoL (development)e.g. irrigation, clean water, bottom up, promotes social justice. Accept any feasible point. 1 mark for a basic point; 2 marks for an extended point. (note the change from a levels mark scheme) (ii) Using examples, suggest how improvements in water supply might have a positive impact on the lives of the rural poor in LEDCs. (6) Examples might be health related (reducing waterborne disease, lowering IM); agricultural in terms of irrigation, improving yields, food supply and income; reducing labour in collecting water; improved reliability of supply. Bangladesh tube wells, wateraid schemes and even dams may be used as support. L3 (5-6) Several impacts but generalised. L1 (1-2) One or two general ideas, likely to focus on Fig2b. 	 INCREASE Most likely areas of counter-urbanisation close to major cities e.g. Home Counties, West Midlands. Expect named locations. Factors include better transport links, increased car ownership. Decentralisation of commerce reduces travel times to work; desire for a better QoL free from city stress, crime, pollution. Lower house prices and the rural idyll. In LEDC areas natural increase due to BR may be the main cause; also development linked to tourism or resources (Rondonia). DECREASE Isolation and remote rural areas; opportunity/ mobility/ household deprivation leading to migration of young; lack of job opportunities and career ladders. In some cases high house prices (Lake District) and declining services linked to tourism dependence and holiday homes. In LEDCs, poverty, civil strife, AIDS in Botswana. Lack of resources and environmental degradation. Factors will depend on choice of areas. L3 (9-10) Wide range of factors linked to examples of the chosen change. Structured, exemplified detail. L2 (5-8) Some factors linked to change; less precise examples and depth. L1 (1-4) A few general ideas explaining change; lacking depth / examples. If both increase and decrease covered; mark both and credit the better. Max 7 if only 1 place mentioned.

QUESTION 3AStudy Figure 3 on page 4 in the ResourceBooklet. It is a map of Sao Paulo, Brasil.	B The wealthy suburb of Alphaville is shown on Figure 3.	C Show how the cycle of urbanisation below can be applied to urban areas you have studied (10)
(i) Sao Paulo is described as a mega-city. Explain this term. (2)	have chosen to live on the edge of Sao Paulo. (4)	Any urban areas are acceptable. The cycle is urbanisation, suburbanisation, counter-urbanisation. Expect some technical terms linked to the Figure
 Population 8 / 10 million • Extension mark for example / very large area / there are 28 or other reasonable. (ii) Describe and Suggest reasons for the distribution of low income housing in Sao Paulo. (4) The housing areas are peripheral / urban edge. Most are to the west and east, some around lakes to the south. There are some satellite areas (Ribeiro Pires and Francisco Morato). Some might see ribbon development along rail and road links. Recent migrants on urban edge; low value land near lakes, but close to city for services and employment. Rail links to commute to work. Note change from levels. 1 mark for each desc max 2. 2 further marks for linked explanation. (iii) Define the term urban sprawl. (2) (rapid) growth outward • of built up area into countryside / rural •, often unplanned • One mark basic point, 2 for extension. (iv)Briefly state the likely impacts that urban sprawl is having on rural areas close to Sao Paulo (4) Loss of farmland / land grabs Pollution of water courses due to waste Visual pollution from squatters settlements Uncontrolled development. Other feasible impacts e.g. crime. One mark for a basic point, 2 marks for an extended point up to Max 4. 	 Perceived lower crime / better safety Access to employment if not in the CBD. Other realistic reasons 1 mark for a basic reason, 2 marks for an extended reason up to Max 4. 	 terms linked to the Figure. Expect a sequence of growth, especially during the Ind Rev (e.g. London, Manchester) linked to migration for work. Drift to the suburbs in later 19th. C and especially 20th to escape pollution etc. Facilitated by rail then road (e.g. Surbiton, Headingly) Move to the fringe and countryside in the later 20th. Century facilitated by the car; decentralisation of jobs and services. Commuter villages may be mentioned. An LEDC approach is possible, and equally acceptable. Reurbanisation is not shown. Credit it's inclusion but do not expect it. L3 (9-10) Structured coverage of the full cycle shown, with good use of terms; linked to named locations to illustrate main points. L2 (5-8) Covers most of the cycle; some examples used but less depth. Max 8 if only 2 parts of the cycle are covered. L1 (1-4) Patchy coverage of the cycle; may be one or two general processes lacking linkage. Limited examples if any.

QUESTION 4AStudy Figure 4 on page 5 in the ResourceBooklet. It shows some sustainable city initiatives.	B Study the image below. It shows part of an application form for the US 'City Livability Awards', 2002.	C With reference to named LEDC cities, assess the success of schemes designed to improve living conditions in urban areas (10)
 (i) Define the term sustainable city. (2) An urban area that minimizes / manages environmental impact <i>O</i> and maximizes quality of life for residents <i>O</i>. Example <i>O</i>. Reference to sustainable city system (quality of life/social justice/equity). The full Brundtland definition <i>O</i>, if linked to urban areas = <i>O</i> 1mark for basic point, 2 marks for extended/ exemplified definition. (ii) Using Figure 4 and your own knowledge, suggest how some cities might "lead the way to a greener world" in terms of: (8) IMPROVING TRANSPORT-reducing air pollution and congestion by cutting traffic (Bogota, Vienna,) may add London CC of other examples; using new fuels to cut toxic emissions (Delhi). REDUCING WASTE – recycling schemes (San Diego); energy efficiency (Melbourne) and alternative energy (Boston). Other examples they know of should feature. L3 (4) Range of specific, sustainable ideas using 	 2002. (i) Choose two of the subject areas A-F above and for each one, explain how it might make the city more 'livable'. (6) Likely choices are brownfields (cleaning up eyesores; creating new houses / services); Community development & housing (better homes improving QoL); Economic development (creation of jobs, raising income levels). <i>•</i> mark for a basic point linked to making a city a good place to live; award <i>•</i> marks for an extended point / example up to max 3. 2x3 = 6 max. (ii) Outline some possible benefits for a city that wins a 'city livability award'. (4) Largely to do with image and prestige, especially if image was poor before the award. Recognition of the success of regeneration perhaps. Encourages migration of people and businesses and can stimulate growth in a competitive market. May discourage emigration and decline. May give people of the city morale boost e.g. Glasgow city of culture. Note: many ideas are possible here 	
 the figure and own knowledge L2 (2-3) Range of specific sustainable ideas. Max 3 if no link to Figure 4 or use of own knowledge. L1 (1) One or two ideas poorly stated and generalised. 2 X 4 MAX 	● mark for a basic suggested benefits, ● marks for an extended point / example up to max 4.	 L3 (9-10) Structured account with range of named examples in some depth, linked to improvement in living conditions. Clear assessment. L2 (5-8) Some structure and uses some examples, in less depth; some linkage to living conditions. Unlikely to assess; may imply it. Max 7 if one named city only. L1 (1-4) One or two generalised ideas only. No assessment.

QUESTION 5 A	В	С
Study Figure 5 on page 6 in the Resource		Despite regeneration, some CBDs are still
Booklet. It shows two photographs of Cardiff		struggling to attract business whilst out of
		town complexes are thriving. Using examples,
		explain why this is happening. (10)
(i) Although the site shown in Photograph A is	(i) Identify the evidence in Photograph B that	Expect areas to be named - likely to pick local
derelict it has a high land value. Explain why	suggests this area is part of a CBD	CBD, OOT may include Metrocentre,
this is so. (2)	regeneration scheme. (4)	Meadowhalll, Bluewater etc.
The site has good access 0 (road / rail), close to	Older buildings can be seen (1887) and have	The range of reasons is very large, do not expect
CBD (also bid rent) 0 , has redevelopment	been cleaned up, and combined with new	all:
potential 0 , brownfield site 0 Prestige 0 .1 + 1 or	building.	PARKING - difficult and expensive in CDB -v-
2 marks for an extended point.	Range of new materials used - glass and steel.	free and plentiful in OOT.
(ii) Outline a programme of fieldwork you	Mixed use redevelopment (residential, bars,	WEATHER – open to elements in CBD –v-
could undertake to investigate the	restaurants).	covered and AC / Heating in OOT. Some may
environmental quality of the type of area	Clear attempt to create 'café culture'.	suggest CBD attempts to produce covered malls.
shown in Photograph A. (5)	The landuse is CBD – commercial on lower floors,	ACCESS – difficult in CBD (Park and Ride in York, Durham) and often some distance from
Fieldwork techniques are called for and should	residential above.	suburbs whereas OOT may be nears and less
largely be primary; Credit secondary if linked to	L3 (4) Well evidenced links to CBD and	congested.
environmental quality e.g. LA traffic surveys.	regeneration.	COST – lower land cost for OOT town means
EQS / EIA could be carried out	L2 (2-3) Provides evidence for regeneration.	huge developments, larger shops, more space
 Traffic counts and surveys at various times of the day 	L1 (1) One or two basic observations.	and related developments such as cinemas,
 Air pollution monitoring; Noise levels 	(ii) Outline the environmental and economic	restaurants etc. CBD more congested and
 Use of photograph sequence 	benefits of urban regeneration. (6)	cluttered – some may mention safety aspect, or
 Questionnaires if linked to EQ 	ECONOMIC	even higher pollution in CBD from buses etc.
L3 (5) Range of appropriate techniques in detail,	Regenerated areas receive an injection of capital;	EXPECTATIONS – of a clean modern
linked to EQ	may renew infrastructure and make are attractive	environment; most OOTs have been updated
L2 (3-4) Some range, with some linkage to EQ;	to investment; job creation through new types of	since opening in 80s/90s whereas CBD finds it
less depth	employment (services in the case of the Photo);	harder and more costly to do this (conservation
L1 (1-2) One or two general techniques, limited	virtuous cycle of growth.	areas, pre-existing roads etc.)
EQ link. Max 2 if an undeveloped list.	ENVIRONMENTAL	
(iii) Suggest and justify a new use for this site,	Improved quality of the urban environment;	L3 (9-10) Structured account with range of named
once the derelict building has been	eyesore buildings given new uses; derelict and	examples in some depth, both CBD and out of
demolished. (3)	contaminated land may be cleaned up. Often new	town. A range of reasons are explored.
Accept reasonable suggestions (Hotel, Office Space, Apartments, Retail, urban park) = 0 mark.	trees and landscaping are used.	L2 (5-8) Some structure and uses some
Space, Apartments, Retail, urban park) = \bullet mark. Justification could be building up (as ground rent	12 (F 6) Polonood ana/any: range of idage likely to	examples, in less depth; may be unbalanced
is high) and good access (therefore commercial).	L3 (5-6) Balanced eco/env; range of ideas likely to be supported by examples.	towards CBD or OOT. Some reasons but less
Accept CBD edge as commercial use justification	L2 (3-4) Some balance but less depth and	range and depth. L1 (1-4) One or two generalised ideas only.
● for basic justification, ● if extended Max 2.	exemplification. Max 3 if eco or env only.	<i>Cursory use of examples, if at all.</i>
	L1 (1-2) One or two general ideas; may be from	
	the Photo.	