Published

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Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2016 series for most Cambridge IGCSE®, Cambridge International A and AS Level components and some Cambridge O Level components.
1 (a) Using Fig. 1 (insert) explain two reasons for the growth of tourism in the Polar regions. [4]

Today improving transport technologies such as ships, (1) growing popularity for visiting new and different or extreme areas (1)

Increasing wealth and leisure time for many of the population in developed and increasingly developing economies and a rising interest among consumers for ‘new experiences’ (1) allows greater mobility to enjoy more unique destinations (1)

A moderating climate, and intensive tourism promotion are all contributing to the growth of tourism in the Polar regions. (1) cruise ships now including the destination on their itineraries (1)

(b) Discuss the likely ways in which governments and NGOs might be able to influence tourism activities in the Polar regions. [9]

Governments, and Non-Government Organizations (NGOs) want to determine the vulnerability of the polar environment to tourism impacts, probably by doing an environmental audit

They will wish to mitigate these impacts and design and implement appropriate management responses.

Perhaps by issuing guidelines to tour operators, code of conduct or similar to operators and tourists, particularly cruise ship passengers and trip organisers.

Education programmes linked to promotional activities about the importance of the area

The success of management responses depends on their relevance to the environmental, cultural, economic, and political conditions that uniquely characterise the Polar regions. These may include:

- Enforcing laws
- Making charges/introduction of fees
- Reduction of numbers allowed to visit

Levels of response

**Level 1 (1–3)**
Candidate identifies/describes some possible ways. Information may be in the form of a list of ways. There is little or no attempt to discuss. The answer is basic and shows limited knowledge and understanding of government and NGO action. There is limited use of specialist vocabulary.

**Level 2 (4–6)**
Candidate describes a number of possible ways. May begin to discuss with some success. The answer is relevant and accurate and shows reasonable knowledge of government and NGO action. There is an understanding of concepts and principles with some use of specialist vocabulary.

**Level 3 (7–9)**
Candidate shows a clear understanding of the question. Candidate effectively discusses the possible ways. There is sound and frequent evidence of thorough, detailed and accurate knowledge and understanding of government and NGO actions and how they might be able to influence tourism activities in the Polar regions. Specialist vocabulary is used.

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(c) Evaluate the likely environmental impacts of tourism activities in the Polar regions.[12]

Both positive and negative impacts.

Depends on the type of activities undertaken in the Polar regions and they may be compromised by the number of visitors. These in turn may put additional pressure on land, wildlife, water and nature-based resources.

There are also safety concerns centred on the capacity of countries and the international communities to respond to an accident involving say a cruise ship – crashing into ice shelves and damaging large areas of land mass.

However, tourism is an activity that sustainably managed and with profits and revenues fairly shared can also contribute to the well-being and livelihoods of local communities in the Arctic.

Tourism revenues may provide resources for the conservation of the Polar regions by providing greater revenues for providing greater economic opportunities and choices for local people.

Levels of response

**Level 1 (1–4)**
Candidate identifies/describes some possible impacts. Information may be in the form of a list. There is little or no attempt to evaluate. The answer is basic and shows limited knowledge and understanding of environmental impacts of tourism activities in the Polar regions. There is limited use of specialist vocabulary.

**Level 2 (5–8)**
Candidate may include explanations of a number of possible impacts there may be some attempt to evaluate. The answer is relevant and accurate and shows reasonable knowledge and understanding of environmental impacts of tourism activities in the Polar regions. There is some use of specialist vocabulary.

**Level 3 (9–12)**
Candidate shows a clear understanding of the question and includes a detailed identification and explanation. Candidate effectively evaluates the possible impacts. There is sound and frequent evidence of thorough, detailed and accurate knowledge and understanding of environmental impacts of tourism activities in the Polar regions. The language used is clear and there is use of specialist vocabulary.
2 (a) Explain two objectives of ecotourism. [4]

Ecotourism combines travel to natural areas with principles of sustainability, (1) conservation and direct benefits to local people. (1) Small in scale. (1)

Ecotourism focusses on minimizing impact on the environment (1) by building environmental awareness, (1) providing benefits to conservation and local people, (1) respecting local culture and supporting human rights. (1)

(b) Assess the positive and negative economic impacts that increased levels of adventure tourism might have on the local Atitlan lake community. [9]

Sustains jobs and the local community by bringing in wealth to the area and generating the multiplier effect.

Positive publicity for the area.

Helps locals to have training opportunities and become a skilled workforce.

May use local facilities/locally made goods and products to aid with the development of the adventure activities.

Negative issues include leakages such as in exports, labour and income.

Seasonal nature of income and therefore loss of work during winter months.

Levels of response

Level 1 (1–3)
Candidate identifies/describes some possible impacts. Information may be in the form of a list of ways. There is little or no attempt to assess. The answer is basic and shows limited knowledge and understanding of economic impacts with limited use of specialist vocabulary.

Level 2 (4–6)
Candidate describes a number of possible impacts. The answer is relevant and accurate and shows reasonable knowledge and understanding of economic impacts with relevance to the local Atitlan lake community. There is some use of specialist vocabulary.

Level 3 (7–9)
Candidate shows a clear understanding of the question and includes a detailed identification and explanation of both positive and negative impacts. Candidate effectively assesses. There is sound and frequent evidence of thorough, detailed and accurate knowledge and understanding of economic impacts, using specialist vocabulary.
(c) Evaluate the methods that could be used to help preserve the cultural heritage of Guatemala. [12]

Develop skills and training

Set up a network of crafts people

Collaboration with local/regional/national governments for support both financial and operational

Regeneration and planning

Education

PR and marketing to help provide promotional growth and information to tourists.

Encourage growth of museums usage

Encourage local people to participate perhaps through financial incentives

Further develop co-operatives and partnerships

Levels of response

**Level 1 (1–4)**
Candidate identifies/describes some possible methods. Information may be in the form of a list of ways. There is little or no attempt to evaluate. The answer is basic and shows limited knowledge and understanding of concepts and principles of preservation with limited use of specialist vocabulary.

**Level 2 (5–8)**
Candidate recommends a number of possible methods. The answer is relevant and accurate and shows reasonable knowledge and understanding of concepts and principles of preservation with some use of specialist vocabulary. There is some evidence of an attempt to evaluate.

**Level 3 (9–12)**
Candidate shows a clear understanding of the question and includes a detailed identification and explanation of a number of methods. Candidate effectively evaluates. There is sound and frequent evidence of thorough, detailed and accurate knowledge and understanding of concepts and principles using specialist vocabulary.