

Surname	Centre Number	Candidate Number
Other Names		0



GCSE

4242/03

**GEOGRAPHY
SPECIFICATION B
HIGHER TIER
UNIT 2
SECTION A**

A.M. WEDNESDAY, 12 June 2013

30 minutes

For examiner's use only	
Question 1	30

This paper is to be collected in after 30 minutes.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** parts of this question in parts (a) to (d). There is a choice in part (e).

Write your answers in the spaces provided in this booklet.

If additional space is required you should use the continuation lines at the end of this booklet. The question number(s) should be clearly shown.

INFORMATION FOR CANDIDATES

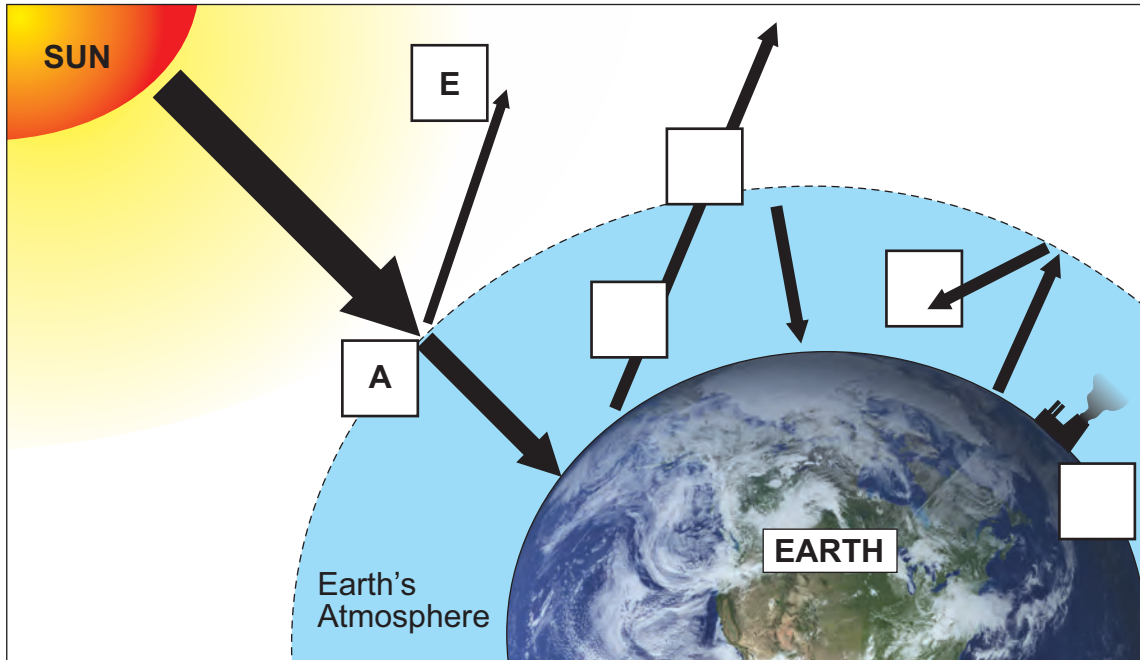
The number of marks is given in brackets [] at the end of each question or part-question.

You are reminded that assessment will take into account the quality of written communication used in the case study question.

Theme 3: PEOPLE, WORK AND DEVELOPMENT

Answer **all** parts of (a) to (d) in this question. There is a choice of question in (e).

1. (a) Study the diagram below which shows the Greenhouse Effect.



- (i) Describe how the 'Greenhouse Effect' works by adding letters from the box to label the diagram above. *Two have been done for you.* [2]

A	Radiation from the Sun passes into the atmosphere.	D	Some of the Sun's radiation is absorbed by the greenhouse gases in the Earth's atmosphere. This warms the Earth.
B	Some of the Sun's radiation is reflected from the Earth's surface into the atmosphere.	E	Some of the Sun's radiation is reflected back into space.
C	Some of the Sun's radiation passes through the Earth's atmosphere back into space.	F	Human activities have increased the amount of greenhouse gases in the Earth's atmosphere, for example, burning fossil fuels in power stations.

- (ii) Coal fired power stations are one source of greenhouse gases. Name **two other** human activities which are sources of greenhouse gases. [2]

.....

.....

- (iii) Explain ways in which an increase in global temperatures is affecting people. [4]

.....

.....

.....

.....

.....

.....

.....

.....

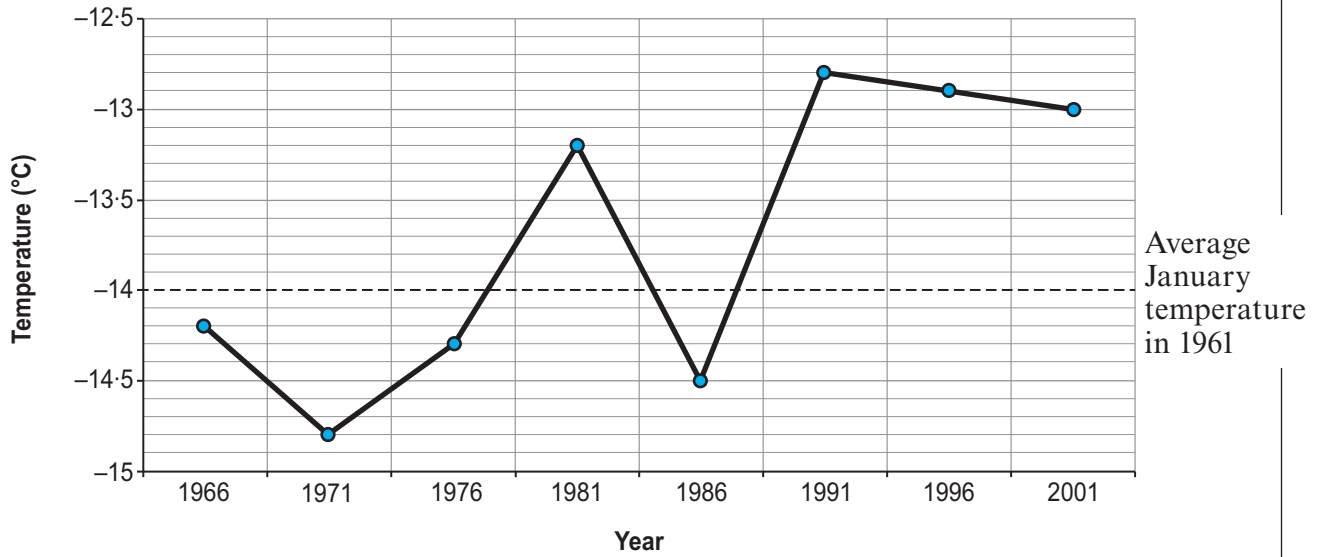
(b) Study the information about the Altai Mountains below.



4242-03/0003

Study the graph below. It shows recent changes in the average January temperature in the Altai Mountains.

Changes to the average January temperature in The Altai Mountains since 1961



(i) What was the average January temperature in the Altai Mountains in 1966? [1]

.....

(ii) Describe the trend in average January temperatures in the Altai Mountains between 1966 and 2001. Use figures in your answer. [3]

.....

.....

.....

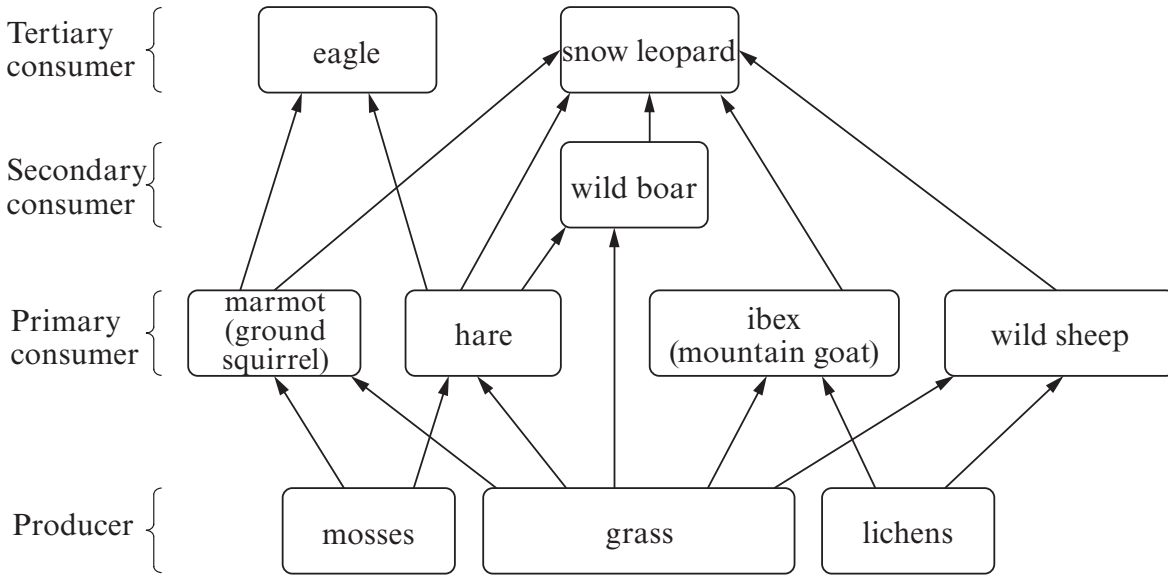
.....

.....

(c) (i) Changing temperatures have affected the ecosystem in the Altai Mountains. What is an ecosystem? Tick (✓) the correct definition in the box below. [1]

	Tick (✓) the correct answer
The air, land and sea around us.	
A community of plants, animals and their environment.	
Natural resources that are found on land, sea and in the air.	

Study the food web below:



- (ii) Snow Leopards in the Altai Mountains are under threat because, as temperatures increase, the snow line retreats up the mountain. Explain how the decline in numbers of snow leopards would affect this ecosystem. [4]

.....

.....

.....

.....

.....

.....

.....

.....

.....

