TONBRIDGE SCHOOL

Scholarship Examination 2017

GEOGRAPHY

Tuesday 25th April 2017
12.00 pm

Time allowed: 1 hour

Attempt BOTH sections, taking care to read the instructions for each section.
Begin each section on a separate sheet of paper, with your name at the top.

Section A is worth 50 marks and section B is worth 50 marks.
You should spend 30 minutes on each section.

You should have been given

- *a question paper*
- *two resource sheets (Resource A and Resource B)*

SECTION A

*Read the information provided and answer **ALL** of the questions in Section A.*

The questions in Section A relate to the geography of cold environments. Although there is no expectation that you would have been specifically taught this topic at school, you should use your broader geographical knowledge to answer the following questions.

Resource A consists of a graph showing the average extent of sea ice cover in the Arctic for selected months of the year, from 1980 until the present.

Resource B consists of a diagram explaining glacial mass balance, two photos of the Upper Grindelwald Glacier at different time in history, and a simple line graph showing its change in length over time.

Answer the following questions, quoting specific data from the graphs in your answers. It would be a good idea to read through all three questions before starting to write your answers.

1. Using Resource A, **describe** the changes in Arctic sea ice cover, both through the year, and over the longer term.

[10]

2. Attempt to **explain** both the typical pattern of sea ice cover changes through the year, and the longer term changes to this pattern since 1980.

[20]

3. 'Valley glaciers in mountainous regions around the world, such as the Upper Grindelwald Glacier in the Alps, are retreating'. Using the information you have been given in resource B, explain the process of glacial retreat.

[20]

[Total for Section A : 50 Marks]

SECTION B

*Only answer **ONE** of the following 5 questions.*

1. Using the example of **either** a flood **or** a tectonic event that you have studied, describe the actions taken to minimise the environmental, economic and social risks which the event created.

2. Describe and explain the pattern of how temperature and rainfall varies over the UK, and outline to what extent you think this might change in the next few decades.

3. The Guardian newspaper identified five 'Global Challenges for 2017' that human society needs to solve in the near future. Four of these are issues directly studied by geographers. Why is it that Geography is needed more than ever, now?

4. Using a case study of a multi-national company of your choice, discuss how suitable the town nearest to where you live would be for them to locate a new factory or other development.

5. Discuss, using examples from cities you have studied, whether good urban management can help to make a city significantly more sustainable?

[Total for section B : 50 marks]

END OF PAPER

BLANK PAGE