



**ST PAUL'S SCHOOL
JUNIOR SCHOLARSHIP EXAMINATION**

MAY 2016

GEOGRAPHY

1 hour

plus 5 minutes reading time

(NB: during the first 5 minutes, you may annotate or highlight the question paper but may not write anything on your answer sheet. You should work through the paper at roughly a mark a minute.)

Answer all of the questions

Storm Desmond was an extra-tropical cyclone that impacted the UK between the 3rd and 8th December 2015. Amongst other impacts, the storm caused a significant amount of precipitation and subsequent flooding.

Physical Geography

1. Study Figure 1. The blue lines with triangles on represent a cold front whereas the red lines with semi-circles represent a warm front. Use your knowledge of how frontal rainfall occurs to explain why there was a lot of precipitation during the storm.

[5]

2. Study Figure 3 which shows an OS Map extract of Carlisle, one of the areas impacted by Storm Desmond. Identify the river landform shown in 406569 and explain how it was formed using an annotated diagram.

[5]

3. Figure 2 shows Brunton Park, the home of Carlisle FC having been flooded during Storm Desmond. Using any evidence you can see in Figures 2 & 3 and/or your own knowledge suggest how the risk of flooding could be reduced.

[7]

4. ‘The impact of a tectonic hazard depends more on a country’s level of development than any other factor’. Discuss the extent to which you agree with this statement.

[8]

Human Geography

5. Look again at Figure 3 and the industrial estate at 381591. Explain why a business may choose to locate there.

[4]

6. The city of Carlisle has grown from 100,798 people in 2001 to 107,500 people in 2011. To deal with this increase in population, planners may need to complete new housing or facilities projects. Explain how this can be done in an environmentally sensitive way.

[6]

7. Some argue that if Carlisle is to continue to attract migrants and grow economically it needs to improve its transportation links. Using a case study of a place that you have studied, explain the environmental and economic costs and benefits of a planned or completed transport project.

[7]

8. Increased economic activity in a region can bring a range of benefits and problems. Discuss how economic development in any part of the world can be made more sustainable.

[8]

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