

## **A level Geography**

**H481/01** Physical systems

### **Question Set 12**

Earth's Life Support Systems

- 1 (a) Study **Fig. 1**, a climate graph for Yakutsk, northern Russia.
- (i) With reference to **Fig. 1**, suggest how variations in temperature influence the size of **one** store in the carbon cycle. [4]
- (ii) Explain **three** limitations of such climate graphs in representing the climatic conditions of a location. [3]
- (b) Examine the significance of short term changes to the flows and stores in the water cycle. [10]
- (c)\* 'Reducing emissions is the most effective global management strategy to protect the carbon cycle as a regulator of the Earth's climate.'  
How far do you agree with this statement? [16]

**Total Marks for Question Set 12: 33**

## Resource Materials

### 1 (a) (i) Fig.1 – Climate graph for Yakutsk, northern Russia

Climate Yakutsk', [www.en.climate-data.org](http://www.en.climate-data.org), Climate-Data.org. Item removed due to third party copyright restrictions. Link to material: <https://en.climate-data.org/asia/russian-federation/sakha-republic/yakutsk-1806/>



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