Part A. Reading Comprehension.
Read the following text:

**SCIENTISTS CALL FOR RESEARCH ON CLIMATE LINK TO GEOLOGICAL DISASTERS**

Scientists today called for research into whether more volcanoes, earthquakes and tsunamis could be triggered by rising global temperatures under global warming. Significant warming of the atmosphere in the distant past can be linked to changes in geological activity, they say. Suggestions that climate change predicted for coming decades could bring similar changes remain speculative, but the scientists say there is enough evidence to take the threat seriously.

Richard Betts, from Exeter, said: “It was previously assumed that there was no link at all between climate change and these events, but it is possible to speculate that climate change might make some events more likely. If we do get large amounts of climate change in the long term then we might see some impacts”.

Experts say global warming could affect geological dangers such as earthquakes because of the way it can move large amounts of materials around on the Earth’s surface. Melting glaciers and rising sea levels affect the distribution of huge amounts of water, which release and increase pressures through the ground. Research suggests that the Earth’s surface can sometimes be so close to failure that small changes in surface pressure provoked by heavy rain can produce earthquakes. Actually, tropical storms, snowfall and shifting tides have all been linked to shifts in seismic activity.

Bill McGuire, from University College London, says: “studies point towards increased risk in relation to a warmer world, and observations suggest that the rise in global temperatures may already be producing disasters in the earth’s surface”.

David Adam, *The Guardian*, 9th April, 2010
I. Answer the following questions using your own words but taking into account the information in the text (2 points: 1 point each)
   a) Why may there be a connection between global warming and geological disasters?
   b) Why can heavy rain provoke earthquakes?

II. Are the following statements true (T) or false (F)? Identify the part of the text that supports your answer by copying the exact passage on the answer sheet (1.5 point: 0.5 each)
   a) It has been scientifically demonstrated that climate change will make geological dangers more likely.
   b) A high amount of water can produce more pressure on the Earth’s surface.
   c) Studies indicate that a warmer world may bring about a higher risk of geological dangers.

III. Find a synonym for each of the four words below from these six options: (1 point: 0.25 each)
   warming    distant    link    likely    actually    rise

   a) probable
   b) increase
   c) connection
   d) far away

IV. Choose a, b, or c, in each question below. Only one choice is correct (1.5 points: 0.5 each)

1. Warming atmosphere in the past...
   a) was produced by changes in geological activity.
   b) may be related to changes in geological activity.
   c) appeared exactly at the same time as changes in geological activity.

2. Global warming could affect geological dangers because...
   a) the Earth’s surface is mainly covered by water.
   b) large quantities of materials are moved to places where earthquakes are likely.
   c) it produces a movement of lots of materials in certain parts of the Earth’s surface.

3. Seismic activity...
   a) can only be altered by the movement of large amounts of materials.
   b) can only be altered by heavy rain.
   c) can be altered by many different climate phenomena.

Part B. Composition (130-150 words approximately) (4 points)
   What can be done to protect the environment and reduce global warming? Give reasons.