

Question 4

- (a) What do you understand by;
- (i) Micro-climate? (2 marks)
 - (ii) Green house effect? (2 marks)
- (b) Name **three** instruments to match three elements of weather that can be measured at a school weather station. (3 marks)

Candidates were required to provide definitions of terms 'micro-climate' and 'green house effect'. They were then expected to display knowledge of the instruments used for recording elements of weather and the element that each instrument records.

Weaknesses

Part (a) of the question was poorly answered. Candidates displayed ignorance of what micro-climate and green house effect mean. In part (b) they were able to get three instruments correctly matched with the weather element they record, except for a few who mixed up the instruments and weather elements.

Expected Responses

- a)
- i) Micro – climate
This is climatic conditions in a restricted area due to small difference eg. aspect, slope, vegetation and human landscapes.
 - ii) Green house effect
It is a condition where the in-coming solar radiation pass through the atmosphere while the outgoing terrestrial radiation are blocked by the clouds/atmosphere making the earth retain most of the terrestrial radiation. This makes the earth to be warmer than it would have been. It is a condition where the atmosphere balances the incoming and out-going terrestrial radiation making the earth to retain optimum heat.
- b) Three instruments to match three elements of weather that can be measured at a school weather station.

	<i>Instrument</i>	<i>Element</i>
i.	Rain gauge	Rainfall
ii.	Thermometer	Temperature
iii.	Barometer	Pressure
iv.	Hygrometer	Humidity