

Instructions: Answer all questions.

1. Study the tables below showing the climatic statistics of station **X** for 2010 and 2011 and answer the questions that follow.

2010

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Temp (°C)	29	29	31	30	29	28	26	27	28	28	28	29
R/F (mm)	240	260	200	280	220	40	10	20	110	300	400	210

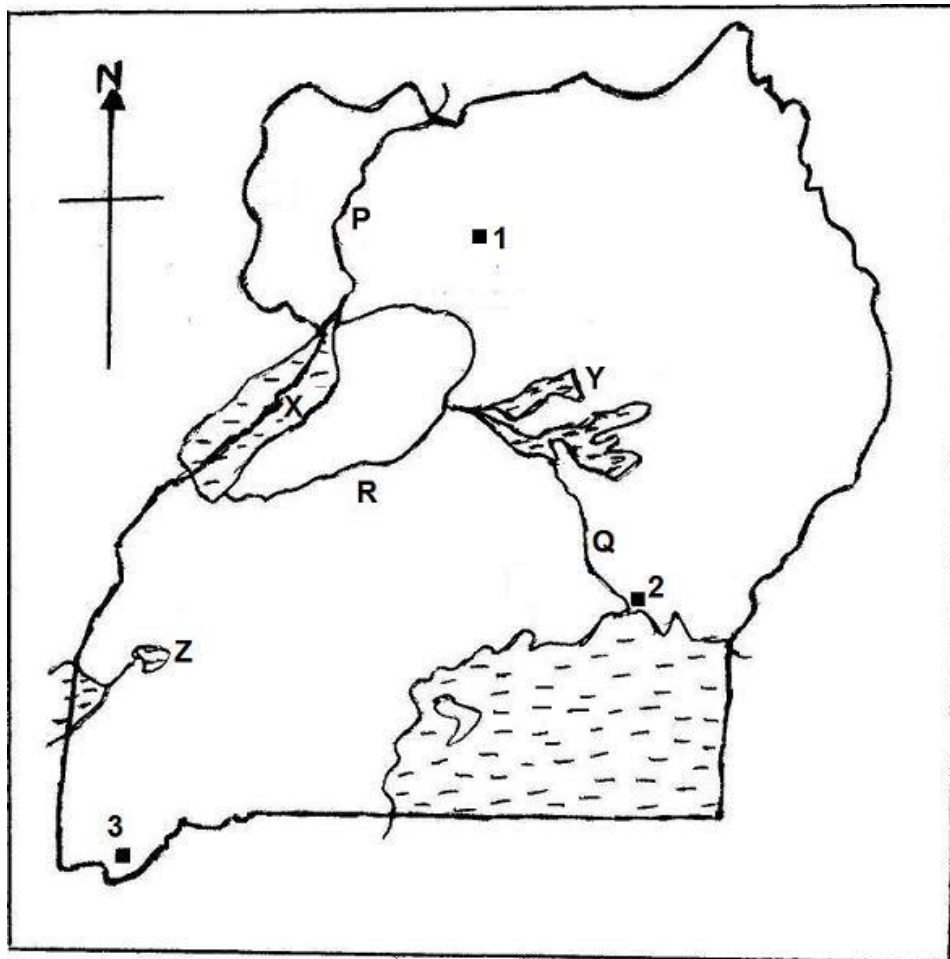
2011

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Temp (°C)	30	31	32	31	30	29	27	28	29	29	29	30
R/F (mm)	250	250	230	300	210	30	20	30	100	280	380	200

- (a) State the;
- (i) Hottest month. (1 mk)
- (ii) Driest month. (1 mk)
- (b) Calculate the;
- (i) Annual range of temperature for 2010 (2 mks)
- (ii) Annual range of temperature for 2011 (2 mks)
- (iii) Annual rainfall total for 2010 (2 mks)
- (iv) Annual rainfall total for 2011 (2 mks)
- (c) (i) Calculate the Mean annual rainfall for station **X** (2 mks)
- (ii) Give possible reasons to explain why station **X** experiences hot temperatures. (4 mks)
2. (a) What is meant by “Relative humidity”? (2 mks)
- (b) Calculate the Relative humidity of the atmosphere in case the absolute humidity is 15 gms/m³ and the maximum vapour content the air can hold is at that temperature is 60 gms/m³. (3 mks)
3. (a) Identify any two (2) areas of montane type of climate in East Africa. (2 mks)
- (b) Give possible reasons to explain why North Eastern Uganda (Karamoja) receives low rainfall. (5 mks)

4. (a) Mention the instruments used to measure the following elements of weather:
- | | |
|----------------------------|--------------------------|
| (i) Amount of rainfall | (iv) Air temperature |
| (ii) Wind speed | (v) Atmospheric pressure |
| (iii) Duration of sunshine | (vi) Relative humidity |
- (6 mks)*
- (b) List any 5 elements of weather that can be measured and recorded at a weather station. *(5 mks)*

5. Study the map of Uganda below and answer the questions that follow.



- (a) Name the following:
- | | |
|-------------------------|----------------|
| (i) Towns: 1, 2 and 3 | <i>(3 mks)</i> |
| (ii) Rivers: P, Q and R | <i>(3 mks)</i> |
| (iii) Lakes: X, Y and Z | <i>(3 mks)</i> |
- (b) Mention the 2 highest volcanic mountains in Uganda. *(2 mks)*