

Answer all questions.  
Sections A, B and C are compulsory.

**SECTION A: MAPWORK**

1. Study the **1:50,000 (UGANDA) BUGONDO** Map extract provided and answer the following questions.
- a) (i) State the ratio scale of the map extract (2 marks)  
(ii) Explain what this ratio scale means or implies (2 marks)
- b) State the grid reference of:  
(i) Air Photo Principal Point with Sortie No. at Ogera in the South West. (2 marks)  
(ii) Primary trigonometrical station at Ogera in the S. West (2 marks)
- c) Name the:  
(i) Man-made feature found at grid reference 308796. (2 marks)  
(ii) Feature found at grid reference 295753. (2 marks)
- d) Measure and state the ground distance in kilometres of the following:  
(i) All weather loose surface road from grid reference 405736 to grid reference 450771. (2 marks)  
(ii) Motor Ferry line from grid reference 308796 to grid reference 299813. (2 marks)
- e) (i) Name the two (2) sub-counties in the area shown on the map extract. (2 marks)  
(ii) Giving an example of each, identify two (2) types of drainage features in the area shown on the map extract. (2 marks)

**SECTION B: GENERAL GEOGRAPHY**

2. Study the table below and answer the questions that follow.

**Precipitation and temperature figures for Station A**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Precipitation (mm)	50	45	55	45	55	70	80	70	40	60	55	50
Temperature (°C)	1	2	5	7	10	15	19	17	12	6	4	3

- a) State the
- i) Temperature of the hottest month. (1 mk)
  - ii) Month with the least precipitation. (1 mk)
- b) Calculate the
- i) Annual range of temperature. (2 mks)
  - ii) Mean annual precipitation. (2 mks)
- c) Mention the characteristics of the climate experienced at Station A. (4 mks)
3. (a) Define Absolute humidity. (2 mks)
- (b) Calculate the Absolute humidity of the atmosphere in case the Relative humidity is 60% and the saturation vapour content (SVC) is 25 gms/m<sup>3</sup>. (3 mks)
4. (a) What is meant by Global warming? (2 mks)
- (b) Mention the three (3) main examples of greenhouse gases. (3 mks)
5. Name the:
- (a) Highest mountain in Africa. (1 mk)
  - (b) Longest river in the world. (1 mk)
  - (c) Deepest lake in Uganda. (1 mk)
6. Mention any two (2) types of solar eclipse. (2 mks)

### SECTION C: FIELD WORK

7. For any **one** field work study you have carried out on a large scale research farm;
- (a) (i) State the topic study. (2 marks)
  - (ii) State the objectives of the study. (3 marks)
  - (b) Describe the
    - (i) Site of the farm (2 marks)
    - (ii) Situation of the farm (2 marks)
  - (c) Describe the activities you carried out in preparation for the field work study. (4 marks)
  - (d) Explain how you used the following methods to collect data in the field:
    - (i) Observation. (3 marks)
    - (ii) Interviewing. (3 marks)
  - (e) Describe the problems you faced while gathering information in the field. (3 marks)
  - (f) (i) Outline the major agricultural activities carried out in the research farm you studied. (4 marks)
  - (ii) Mention the other activities or services at the farm. (4 marks)