

**CHUKA**



**UNIVERSITY**

**SUPPLEMENTARY / SPECIAL EXAMINATIONS**

**THIRD YEAR EXAMINATION FOR THE AWARD OF BACHELOR DEGREE IN  
ENVIRONMENTAL SCIENCE**

**ENSC 362/304: RESEARCH METHODS FOR ENVIROMENTAL STUDIES**

**STREAMS:** BSc. ENSC Y3S2

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 17/11/2020**

**2.30 P.M - 4.30 P.M.**

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**INSTRUCTIONS:**

- Answer all questions in section A and any two in Section B
- Do not write on the question paper

**SECTION A (30 MARKS)**

1. With examples, write short notes on
  - a. Variable (3 marks)
  - b. Nominal data (3 marks)
  - c. Sample design (3 marks)
2. List four formal experimental designs (4 marks)
3. Differentiate between quota sampling from proportionate sampling (6 marks)
4. Outline the kinds of analyses that can be conducted for ordinal data (6 marks)
5. With an illustration, show the features of a chart used for results presentation (5 marks)

**SECTION B (40 MARKS)**

- 6. a. Discuss the application of research in addressing five issues in environmental science (10 marks)  
b. Discuss any five major sources of literature (10 marks)
- 7. a. Discuss any five considerations in identifying an area of research (10 marks)  
b. Discuss why a researcher would opt to include open or closed questions in a questionnaire (10 marks)
- 8. a. Discuss the factors that can affect reliability of a research tool (10 marks)  
b. Discuss the different types of validity (10 marks)

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