

CHUKA



UNIVERSITY

**SUPPLEMENTARY/ SPECIAL EXAMINATIONS**

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

**ENSC 362: RESEARCH METHODOLOGY IN ENVIRONMENTAL STUDIES**

**STREAMS: BSC (ENSC) Y3S2**

**TIME: 2 HOURS**

**DAY/DATE: WEDNESDAY 03/02/2021**

**11.30 AM – 1.30 PM**

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**INSTRUCTIONS:**

- Answer section **ONE** and **ANY TWO** from section B
- Do not write anything on the question paper

**SECTION A (30 marks)**

1. Highlight any six types of literature that can be useful to a researcher. (6 marks)
2. Briefly explain any three types of relationships that can be investigated by use of hypothesis. (6 marks)
3. Differentiate the term reliability from validity. (6 marks)
4. Briefly discuss any six types of observations that can be used in data collection. (6 marks)
5. Briefly discuss any three non-experimental research designs. (6 marks)

**SECTION B (40 marks)**

6. a. Discuss the importance of literature review when defining the problem. (12 marks)  
b. Discuss the different types of research questions. (8 marks)
  7. a. Discuss any four probability-based sampling designs. (12 marks)  
b. Explain the reasons why probability sampling may be preferred over non-probability sampling. (8 marks)
  8. Explain how research can be applied to any four major environmental problems facing urban areas in Kenya. (20 marks)
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