

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**FOURTH YEAR EXAMINATION FOR THE AWARD OF
DEGREE OF BACHELOR OF (ARTS)**

GEOG 417: GEOGRAPHY OF HAZARDS

STREAMS: BA & BED

TIME: 2 HOURS

DAY/DATE : TUESDAY 28 /09/ 2021

8.30 AM – 10.30 AM

INSTRUCTIONS:

- Answer Question **One** and any other Two Questions.
- use illustrations where appropriate

1. a) Explain the following terms as used in risk assessment:
 - i. Vulnerability [2 Marks]
 - ii. Action threshold of hazard perception [2 Marks]
 - iii. Dose-response assessment [2 Marks]
 - iv. Risk transfer [2 Marks]
 - v. Social vulnerability [2 Marks]
- b. Using examples, differentiate between a hazard and a risk. [4 Marks]
- c.
 - (i) Discuss extrinsic and intrinsic vulnerability
 - (ii) Show how these considerations in c (i) are important in species survival. [8 Marks]
- d. Account for declining number of fatalities from disaster in Kenya. [8 Marks]

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2. a) Discuss measures that should be taken to prevent an adverse event in a community dwelling in the neighbourhood of a dam.
- b) Identify the different layers of protection analysis (LOPA) you would use to prevent adverse effect. [20 Marks]
3. a) i) Explain differential vulnerability
- ii) Explain how differential vulnerability can be used to prioritize communities at risk. [10 Marks]
- b) Discuss the difference between a quantitative risk assessment and a qualitative risk assessment. [10 Marks]
4. a) Discuss the steps involved in disaster management cycle
- b) State the importance of stakeholder networks during emergency situations. [20 Marks]
5. Vulnerability of a country to hazards and disasters is both geophysical and developmental. Elucidate. [20 Marks]
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