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UNIVERSITY EXAMINATIONS

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

ENSC 332: ENVIRONMENTAL RISK ASSESSMENT

STREAMS: BSC. ENSC (Y3S2)

TIME: 2 HOURS

DAY/DATE: TUESDAY 09/04/2024

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS

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

SECTION A (30 Marks)

1. Just because something is hazardous, it doesn't mean it will cause harm. Explain. (5 marks)
2. Compare and contrast environmental risk assessment and environmental impact assessment. (6 marks)
3. Using a diagram, explain the concept of threshold dose in relation to risks associated with exposure to toxins. (5 marks)
4. Chance favours the prepared mind. Explain this statement in relation to environmental risk assessment and management. (4 marks)
5. As an environmental risk assessor, how would you evaluate the effectiveness of public participation in risk assessment? (6 marks)
6. Within a given species, not all members of the population respond to the same dose identically. Explain (4 marks)

SECTION B (40 Marks)

7. Suppose you are contracted to carry out an environmental risk assessment for a certain chemical plant in your home county. Describe the procedure you will follow in carrying out the assignment. (20 marks)
8. a) Using an appropriate example, describe event three analysis as a technique for hazard identification and control. (12 marks)
b) Explain the criteria for prioritizing risks identified in environmental risk assessments. (8 marks)
9. a) Discuss four major principles that guide decision making in environmental risk assessments. (12 marks)
b) Explain the key principles of risk communication that should be observed in environmental risk assessment. (8 mark)
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