NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY FACULTY OF COMMERCE DEPARTMENT OF BANKING

RISK MANAGEMENT AND VULNERABILITY ASSESSMENT TECHNIQUES DDMP 2001

SUPPLEMENTARY EXAMINATION

OCTOBER 2008

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATES

Answer any FOUR (4) questions

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question.

Questions may be written in any order, but must be legibly numbered.

The businesses in this question paper are intended to be fictitious.

This paper consists of 3 printed pages

Copyright: National University of Science and Technology, 2008

[Turn over]

QUESTION 1

Comment on the statement that vulnerability assessment serve as the basis for more continuous "habit" of monitoring trends in physical, socioeconomic and infrastructure conditions of disaster prone areas.

TOTAL

[25 MARKS]

QUESTION 2

Risk assessment is viewed as an extremely difficult process to undertake. Using practical examples, discuss critically .

TOTAL

[25 MARKS]

QUESTION 3

- (a) Write brief notes on the following variety of actions under hazard mitigation.
 - (i) Risk avoidance
 - (ii) Risk spreading
 - (iii) Vulnerability reduction

[15 Marks]

(b) Describe the process of determining risk using its main three components.

TOTAL

[10 MARKS]

QUESTION 4

(a) Performing a Cost Benefit Analysis [CBA] must consider costing saved lines. What is the basic approach and what other factors are considered.

[15 Marks]

- (b) Briefly explain the following concepts;
 - (i) RVAT model
 - (ii) Risk
 - (iii) Capacity building
 - (iv) Complex emergency and chaos
 - (v) Vulnerability to risk

TOTAL

[10 Marks] [25 MARKS]

QUESTION 5

Appraise the major factors that affect risk perception in disaster prone areas.

TOTAL

[25 MARKS]

QUESTION 6

Argue how as a hazard manager you could take social differentiation into account in designing mitigation strategies aimed at reducing vulnerability.

TOTAL

[25 MARKS]