

UNIVERSITY OF SWAZILAND

Faculty of Health Sciences

(BSC) IN ENVIRONMENTAL HEALTH

FINAL EXAMINATION PAPER 2006

TITLE OF PAPER : ENVIRONMENTAL IMPACT ASSESSMENT

COURSE CODE : EHS 403

DURATION : TWO HOURS

MARKS : 100

INSTRUCTIONS :

- : ANSWER ONLY FOUR QUESTIONS
- : EACH QUESTION CARRIES 25 MARKS
- : QUESTIONS ONE AND TWO ARE COMPULSARY
- : NO QUESTION PAPER SHOULD BE BROUGHT INTO NOR OUT OF THE EXAMINATION ROOM
- : BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR

QUESTION ONE

Explain briefly why the following steps of environmental impact assessment are normally done

- (a) Scoping (4 marks)
- (b) Consideration of alternatives (3 marks)
- (c) Description of the project (4 marks)
- (d) Description of the environmental baseline (3 marks)
- (e) Mitigation (4 marks)
- (f) Public consultation (4 marks)
- (g) Review (3 mark)

Total 25 marks

QUESTION TWO

- (a) Explain fully what is meant by environmental auditing (5 marks)
- (b) While conducting an environmental audit of a large corporation using the corporate type of environmental auditing, a phased approach is always preferred. Explain what phase 1, phase 2, and phase 3 are aimed at and what they concentrate on. (15 marks)
- (c) Explain why should one sometimes need to conduct a management tool environmental audit (5 marks)

Total 25 marks

QUESTION THREE

The purpose for which an environmental audit is conducted at the end of each of an installation's life cycle phase, or periodically during the operational phase will differ from phase to phase. Mention the six phases (6 marks) and discuss what is actually done in any three (of your choice) of these phases. (19 marks)

Total 25 marks

QUESTION FOUR

- (a) A number of environmental impact assessment methods are available. Name any four of these methods that you know. (4 marks)
- (b) Describe stating all the steps involved how you would carry out an environmental impact assessment using the overlays and mapping methods. (20 marks)
- (c) For what kind of a development project is this method of impact assessment normally used? (1 mark)

Total 25 marks

QUESTION FIVE

- (a) While communicating your findings of an environmental impact study that you have done, certain criteria have to be taken into consideration. What are these criteria? (10 marks)
- (b) What are checklists and what are their weaknesses and strengths? (10 marks)
- (c) For entries in matrix cells using the Leopold Matrix method of impact assessment, the potential impacts are always assessed in terms of certain information. Name five of these. (5 marks)

Total 25 marks

GOOD LUCK!!!