



UNIVERSITY OF SWAZILAND
Faculty of Health Science

Department of Environmental Health
Sciences

Final Examination 2007

- TITLE OF PAPER : ENVIRONMENTAL IMPACT ASSESSMENT
- COURSE CODE : EHS 403
- DURATION : 2 HOURS
- MARKS : 100
- INSTRUCTIONS :
- : ANSWER ANY FOUR QUESTIONS
 - : QUESTIONS ONE AND TWO ARE COMPULSORY
 - : EACH QUESTION CARRIES 25 MARKS
 - : NO PAPER SHOULD BE BROUGHT INTO NOR OUT OF THE EXAMINATION ROOM
 - : BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER

DO NOT OPEN THE QUESTION PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR.

104

QUESTION ONE

Discuss the problems surrounding the development of alternatives in carrying out an environmental impact assessment under the following themes:

- (a) narrow definition of the problem (purpose and need) dictates and constricts possible solutions (alternatives) (5 marks)
- (b) the “problem” can be constructed to justify the solution (5 marks)
- (c) alternatives are subject to stock solutions and problem framing (5 marks)
- (d) alternatives may be intentionally made less attractive (5 marks)
- (e) alternatives are subject to agency agendas and agency autonomy (5 marks)

Total 25 marks

QUESTION TWO

Briefly discuss how one would carry out an environmental impact assessment using the Leopold matrix method under the following themes

- (a) identifying of environmental impacts (5 marks)
- (b) identifying specific actions (5 marks)
- (c) assessment (5 marks)
- (d) entry in matrix cells (5 marks)
- (e) Review of matrix (5 marks)

Total 25 marks)

QUESTION THREE

- (a) List seven examples of environmental management tools (7 marks)
- (b) Explain what you understand by environmental auditing (3 marks)
- (c) List five benefits of environmental auditing (5 marks)
- (d) List five purposes of environmental auditing (5 marks)

Total 25 marks

QUESTION FOUR

(a) Public hearing is one of the ways of dealing with conflicts surrounding environmental decision making. Write an essay on public hearing for environmental impact assessments highlighting their benefits and demerits and indicating with supportive reasons whether they really work or not.

Total 25 marks

QUESTION FIVE

Give a comprehensive comparison between environmental auditing and financial auditing under the following themes:

- (a) requirements objectives (5 marks)
- (b) maturity of concept (5 marks)
- (c) functions of auditing (5 marks)
- (d) standards used (5 marks)
- (e) information systems which can be subjected to auditing (5 marks)

Total 25 marks