

UNIVERSITY OF SWAZILAND

Faculty of Health Sciences

(BSC) IN ENVIRONMENTAL HEALTH

SUPPLEMENTARY 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.

Give at least ten general problems surrounding the development of alternatives in carrying out an Environmental Impact Assessment (EIA) process. (20 marks)
Propose five ways of improving Alternatives development in order to enhance decision - making. (5 marks)

TOTAL 25 MARKS

QUESTION TWO.

(a) List the content information that you would include in an Environmental Impact Statement (EIS)/Report. (5 marks)

(b) List the steps taken in carrying out the Environmental Impact Assessment process. (5 marks)

(c) Describe the role of public participation in the EIA process and discuss four advantages and four disadvantages of public involvement. (10 marks)

(d) List any five ways of achieving a proper public involvement in the EIA process. (5 marks)

TOTAL 25 ,MARKS

QUESTION THREE.

(a) Explain what is meant by Environmental Auditing. (5 marks).

(b) Briefly describe the procedures and methods that you would follow when you are the team leader in an environmental auditing operation for an industry that manufacture pesticides (consider a phased approach of phase I Strategic Environmental Management Audit, phase II Subsidiary Audit and phase III Compliance Audit). (20 marks)

TOTAL 25 MARKS

QUESTION FOUR.

(a) List any five types of environmental auditing that you know. (5 marks).

(b) Discuss the importance of environmental auditing in solving and managing environmental problems/issues with specific reference to a real business need, highlighting issues of purpose, organizational aspect, integration, policies, resources, support services, guidelines, procedures, monitoring and evaluation. (20 marks)

TOTAL 25 MARKS

QUESTION FIVE.

Introduction:

Inyatsi Super Force, a major property developer in Swaziland, is planning an E300 million property development for a client around Big Bend in the Lubombo region. The project is aimed at the national and international tourist market and will take the form of a water front type of development and will include the following; Hotels, conference facilities, malls, water features, trams, restaurants, casino, entertainment venues, permanent displays centered around the gold and diamond industry as well as a museum and archaeological displays as well as places of historical interest. During the construction phase, 1,500 mainly unskilled Swazi laborers will be employed and after completion, this project will provide 600 permanent jobs for Swaziland. The project will be owned by the Tibiyo Taka Ngowane but the trustees and beneficiaries are undisclosed.

You and your company of environmental consultants have been approached by the project manager to handle the Environmental Impact Assessment part of the project. How will you approach this task? Give an outline of your strategy and the important steps in your approach., starting from preparation of plan of action and highlighting meetings literature review, team, visits, data collection, design, and reports.

TOTAL 25 MARKS

GOOD LUCK