

UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

(BSC) IN ENVIRONMENTAL HEALTH

SECOND SEMESTER FINAL EXAMINATION PAPER 2011

TITLE OF PAPER : ENVIRONMENTAL IMPACT ASSESSMENT

COURSE CODE : EHS 403

DURATION : TWO HOURS

MARKS : 100

INSTRUCTIONS : ANSWER **ONLY FOUR** QUESTIONS.
: QUESTIONS ONE AND TWO ARE COMPULSORY

: EACH QUESTION CARRYS 25 MARKS

: NO QUESTION PAPER SHOULD BE BROUGHT INTO NOT
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

WBHO, a major property developer in Swaziland, is planning an E1 billion property development for a client around Pig's Peak in the Northern Hhohho. 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, 2000 mainly unskilled Swazi laborers will be employed and after completion, this project will provide 1500 permanent jobs for Swaziland. At least 50 homesteads will be displaced in the event of this development project. The amount of land that will be taken up is 10 hectares and it is believed that there are endangered plant and animal species in the area. This land was previously owned and used for subsistence agriculture by the people residing on it whose economic income is below E7 per day. The project will be owned by the Tibiyo Taka Ngowane but the board of trustees and beneficiaries are not disclosed. You and your company of environmental consultants have been approached by the project manager (proponent) to handle the Environmental Impact Assessment. Briefly explain how you will manage this daunting task indicating all the steps of carrying out an environmental impact assessment.

TOTAL 25 MARKS

QUESTION TWO

- (a) Explain what is meant by Environmental auditing (5 marks).
- (b) Congratulations! The University of Swaziland has been required by the Swaziland Environment Authority to carry out an environmental audit of its activities. Your company has won the bid to carry out this exercise for the University of Swaziland. Being the team leader, describe how you are going to carry out this exercise (20 marks).

TOTAL 25 MARKS

QUESTION THREE

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

TOTAL 25 MARKS

QUESTION FOUR

- (a) List any five types of environmental auditing that you know of (5 marks).
- (b) Discuss the benefits of environmental auditing in solving and managing environmental problems/issues with specific reference to the Maloma Colliery, highlighting issues of purpose, organizational aspect, integration, policies, resources, support services, guidelines, procedures, monitoring and evaluation (20 marks).

TOTAL 25 MARKS

QUESTION FIVE

- (a) (a)Developers generally claim that environmental impact assessments are blocking economic development. Discuss this statement (10 marks).
- (b) Describe the role of public participation in the EIA process and discuss four advantages and four disadvantages of public involvement. (10 marks)
- (c) List any five ways of achieving a proper public involvement in the EIA process (5 marks).

TOTAL 25 MARKS

GOOD LUCK!!!!!!!!!!!!