

**UNIVERSITY OF SWAZILAND**  
**Faculty of Health Sciences**

**(BSC) IN ENVIRONMENTAL HEALTH**

**SECOND SEMESTER FINAL EXAMINATION PAPER 2010**

**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

1. What do you understand about the meaning of sustainable development? (5 marks)
2. Include in your answer above an outline/figure of the fundamental components that should typify sustainable development. (5 marks)
3. Advance the differences between *environmental impact assessment* and *environmental auditing*? (10 marks)
4. List five types of environmental audits

**TOTAL 25 MARKS**

### QUESTION TWO

1. Explain the meaning of the following as they relate to environmental impact assessment (10 marks).
  - a. environmental impact;
  - b. environmental aspect;
  - c. environmental effect;
  - d. comprehensive mitigation plan; and
  - e. Consideration of alternatives.
2. Explain the meaning of the following as they relate to environmental auditing (10 marks).
  - a. Audit protocol
  - b. Associate audit
  - c. Findings
  - d. Environmental management tools
  - e. Compliance
3. In conducting an environmental impact assessment, some groups of people are involved. Who are these groups of people? (5 marks)

**TOTAL 25 MARKS**

### QUESTION THREE

You are a consultant carrying out an environmental impact assessment for a tourist company that is intending to establish a reptile resort around Malkerns. You approach the Swaziland Environmental Authority for approval of the project as a requirement of the Swaziland Environment Management Act of 2002. You are told by the senior environment officer that, the project has to undergo a screening process.

- a. What do you understand by screening? (2 marks)
- b. What does screening involve? (2 marks)

- c. Under what conditions is a project screened to require a full environmental impact assessment? (5 marks)
- d. Explain what are discussed during a screening meeting between the proponent, relevant authority, and the key interested and affected parties? (10 marks)
- e. Using the level of impact and sensitive environment matrix, show how a project can be screened (6 marks)

**TOTAL 25 MARKS**

#### **QUESTION FOUR**

- 1. You have been contracted to carry out an environmental audit of an environmental management tool for the Royal Swaziland Sugar Corporation (RSSC).
  - a. What would be the reasons for carrying out an audit for an environmental management tool? (6 marks)
  - b. Highlight the items to be included in an audit of an environmental management tool (10 marks)
  - c. Who actually is a proponent and what are his/her responsibilities in an environmental impact assessment process? (9 marks)

**TOTAL 25 MARKS**

#### **QUESTION FIVE**

You and your company (Maduna and Ndlovu International Environment Management Consultants Ltd) are managing the scoping phase for the Proposed Ngiliji highway development project to connect Madlangempisi with Pig's Peak. In details, elaborate on how you are going to manage this daunting phase of an environmental impact assessment process! (25 marks)

**TOTAL 25 MARKS**