

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

**(BSC) IN ENVIRONMENTAL HEALTH**

**SECOND FINAL EXAMINATION PAPER MAY 2013**

**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**

**: 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. Define the term environment. (3 marks).
2. "Human beings have always inhabited two worlds". Discuss this statement. (6 marks).
3. Discuss the major causes of environmental problems. (16 marks).

**TOTAL 25 MARKS**

### **QUESTION TWO**

1. "Sustainable development, like justice and democracy, is a potential which most people would like to realize, but which they find hard to define". Discuss this statement. (9 marks).
2. List the three pillars of sustainable development and the three core values of environmental impact assessment. (6 marks).
3. Describe the scoping stage of an environmental impact assessment process including – definition and the necessary activities that are done during this stage. (10 marks).

**TOTAL 25 MARKS**

### **QUESTION THREE**

Roots, a major construction developer in Swaziland, are planning an E10 billion multistory building for a client in Manzini. The project is aimed at the Swazi and international tourist market and will take the form of a water front type of development and will include the following; hotels accommodation, conference facilities, super markets, water features, trams, restaurants, casino, entertainment venues, permanent displays centered around the jewelry industry. During the construction phase, 600 mainly unskilled Swazi laborers will be employed and after completion, this project will provide 500 permanent jobs for Swaziland. The project will be owned by Moses Motsa. You and your company of environmental consultants have been approached by the project manager to handle the Environmental Impact Assessment part of the project. Briefly explain how you will manage the Screening part of the environmental impact assessment process.

**TOTAL 25 MARKS**

### **QUESTION FOUR**

1. List the content information that you would include in an Environmental Impact Report (EIR). (5 marks).
2. Discuss the importance of environmental auditing in solving and managing environmental problems/issues with specific reference to UNISWA, highlighting issues of purpose, organizational aspect, integration, policies, resources, support services, guidelines, procedures, monitoring and evaluation. (20 marks).

**TOTAL 25 MARKS**

### **QUESTION FIVE**

1. Define environmental auditing and list four types of an environmental audit. (6 marks).
2. The USA Distillery is a major ethanol producer in Swaziland and is located at Big Bend. The communities around the project area are complaining of choking, irritating, and disagreeable gaseous emissions. In addition, they are complaining of water pollution problems. The soils of the area have not been spared either. The Swaziland Environment Authority has directed that the Distillery undertake an environmental audit of the facility and you and your company have the tender to carry out this exercise. Describe how you will approach this task highlighting type of the audit you will undertake and procedure you will follow in carrying out the pre-audit activities, on site activities, and the post audit activities. (19 marks).

**TOTAL 25 MARKS**