

UNIVERSITY OF SWAZILAND
MAIN EXAMINATION, SECOND SEMESTER MAY 2013

FACULTY OF SCIENCE AND ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

TITLE OF PAPER: PROFESSIONAL PRACTICE

COURSE CODE: EE411

TIME ALLOWED: THREE HOURS

INSTRUCTIONS:

- 1. There are five questions in this paper. Answer any FOUR questions**
- 2. Each question carries 25 marks.**

**THIS PAPER SHOULD NOT BE OPENED UNTIL PERMISSION
HAS BEEN GIVEN BY THE INVIGILATOR**

THIS PAPER CONTAINS TWO (2) PAGES INCLUDING THIS PAGE

QUESTION ONE (25 marks)

What is a contract? List and discuss essential attributes that a contract should have before it can be considered legally binding? (25 marks)

QUESTION TWO (25 marks)

- (a) What is a professional engineer? Describe the process through which an engineering graduate becomes a professional engineer? (10 marks)
- (b) Briefly discuss the role of engineers in the development of any society. (15 marks)

QUESTION THREE (25 marks)

Sustainable development involves balancing social, economic and environmental issues. Explain how environmental issues are interrelated with economic and social issues. (25 marks)

QUESTION FOUR (25 marks)

- (a) What are the attributes of a profession? Explain why engineering is called a profession? (18 marks)
- (b) Stakeholders have proposed that Swaziland should have an “Engineering Council” What is an Engineering council? List five of its main functions. (7 marks)

QUESTION FIVE (25 marks)

What is meant by Intellectual Property? Discuss three ways in which an engineer can protect his/her Intellectual Property.

(25 marks)