



MACHAKOS UNIVERSITY

University Examinations 2016/2017

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

SECOND YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE IN CIVIL ENGINEERING

ECU 108: INTRODUCTION TO ENGINEERING PROFESSION

DATE: 20/6/2017

TIME: 8:30 – 10:30 AM

INSTRUCTIONS

Answer question one and any other two questions

QUESTION ONE (COMPULSORY)

- a) Outline any five misconceptions about the engineering profession. (5 marks)
- b) An engineer uses the understanding of science to make life better. Explain (15 marks)
- c) Describe how you would create a man-made island inside a lake. (10 marks)

QUESTION TWO (20 MARKS)

Engineering profession has specific areas of specialization. Discuss any **five** areas of specialization that can be offered for study in the school of engineering in any university worldwide. (20 marks)

QUESTION THREE (20 MARKS)

For one to be registered as a professional engineer in Kenya. One has to meet certain requirements. Discuss the steps and requirements to be met for one to be registered as a professional engineer in Kenya. (20 marks)

QUESTION FOUR (20 MARKS)

In an engineer's pursuit to make life better, they are sometimes tasked to write engineering reports. Elucidate on the contents of an engineering report. (20 marks)

QUESTION FIVE (20 MARKS)

Engineering is an interdependent profession i.e an engineer in one area of specialization has to work together with engineers from other areas of specialization or people from entirely other professions in order to further development. Discuss (20 marks)