



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

UNIVERSITY EXAMINATION FOR:

BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

(INSTITUTION BASED EXAMINATION)

TMC 4211 : OCCUPATIONAL SAFETY AND HEALTH

ENGINEERING

END OF SEMESTER EXAMINATION

SERIES: MARCH 2017

TIME: 2 HOURS

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of five questions.

Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

QUESTION ONE (COMPULSORY)

- i) Define ergonomics. (5 Marks)
- ii) Outline the meaning of occupational safety and health. (5 Marks)
- iii) What is risk transfer? (5 Marks)
- iv) Discuss the procedure of risk assessment in the position of the workplace hazards and workplace accidents. (15 Marks)

Attempt any TWO questions

QUESTION TWO

- a) Discuss the main dilemma in occupational safety and health. (12 Marks)
- b) Describe the outcome of the risk management process. (8 Marks)

QUESTION THREE

- a) What is safety management system in OHS? (10 Marks)
- b) Define safety management systems. (5 marks)
- c) Outline the five steps to be followed in risk management. (5 Marks)

QUESTION FOUR

- a) Outline the three imperatives for adopting a safety management system for a business. (3 Marks)
- b) Describe the implied moral obligation placed on an employer. (8 Marks)
- c) Describe the legislative requirements that are defined in just about every jurisdiction on how this is achieved. (9 Marks)

QUESTION FIVE

- a) What does P-D-C and ACT stand for? (5 Marks)
- b) A systems approach was introduced in the OHS ACT 2007 with demands. Enumerate them. (7 marks)
- c) A new authority to be managed by a national commission on occupational safety and health is expected to make some achievements. Enumerate them. (8 Marks)