



MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF ENGINEERING TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

UNIVERSITY ORDINARY EXAMINATION

2023/2024 ACADEMIC YEAR

..... YEAR **SECOND** SEMESTER EXAMINATION FOR, BACHELOR OF
SCIENCE IN

EES 514– PROFESSIONAL ENGINEERING PRACTICE AND ETHICS

DURATION: 2 HOURS

Instructions to candidates:

1. Answer question One and Any Other Two questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (30 MARKS)

- i) Explain any six of the fourteen principles of management developed by Henry Fayol (12marks)
- ii) Engineer's Board of Kenya (EBK) regulates the engineering profession in Kenya by setting standards for engineering education, practice training and ethics. Give 4 types of categories that engineers can be registered in (8marks)
- iii) Write brief notes on the role of engineers in development and policy making (10marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

- i) It is paramount for Engineers to belong to professional engineering societies upon graduation aligned to their specialization. Explain the meaning of engineering societies and its importance (10marks)
- ii) Why is it necessary to regulate engineering practice (10marks)

QUESTION THREE (20 MARKS)

- i) Construction projects are broadly categorized into three types in details (12marks)
- ii) There are many forms of procurement models in use. Describe any two common procurement models (8marks)

QUESTION FOUR (20 MARKS)

- i) Define the term 'whistleblowing' as applied in engineering ethics (4marks)
- ii) Give 4 detailed examples of problems that might warrant whistleblowing (16marks)