



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

THIRDYEAR SECOND SEMESTER EXAMINATION FOR

DIPLOMA IN ELECTRICAL ENGINEERING

EED 324: ENGINEERING SERVICE CONTRACT

DATE: 22/10/2020

TIME: 8.30-10.30 AM

INSTRUCTIONS

Answer Question One and any Other Two Questions

QUESTION ONE (30 MARKS)

- a)
 - i Name any two types of contracts
 - ii Explain four purposes of law (10 marks)
- b) Distinguish the following terms as used in law
 - i. Civil and criminal law
 - ii. Procedural and substantive law
 - iii. Public and private law
 - iv. National and International Law (12 marks)
- c) With regards to law of contract, briefly explain four (4) instances where an offer can be terminated (8 marks)

QUESTION TWO (20 MARKS)

- a) Explain four (4) essential components of contract (4 marks)
- b) State and explain four types of contracts giving an advantage and disadvantage of each (16 marks)

QUESTION THREE (20 MARKS)

- a) Explain the following terms
 - i. Variable cost
 - ii. Fixed cost
 - iii. Penalty clause (6 marks)
- b) Trade unions are important part of industry. Explain four reasons why an employee should join a trade union (4 marks)
- c) Explain the process of estimation giving example in each step. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Explain the following terms
 - i. Tender
 - ii. Tender document (4 marks)
- b) State and explain the difference between
 - i. Tort and crime
 - ii. Physical and state law (8 marks)
- c) Discuss four (4) types of tenders indicating their advantage and disadvantages (8 marks)

QUESTION FIVE (20 MARKS)

- a) Explain four sources of law (8 marks)
- b) Explain functions of an electrical engineer (8 marks)
- c) Explain two factors to be considered when purchasing electrical equipment. (4 marks)