



## MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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### UNIVERSITY EXAMINATIONS 2023/2024

FIRST YEAR FIRST SEMESTER EXAMINATION FOR DEGREE OF BACHELOR OF EDUCATION IN TECHNOLOGY IN MECHANICAL ENGINEERING, BACHELOR OF EDUCATION TECHNOLOGY IN ELECTRICAL ENGINEERING, BACHELOR OF EDUCATION TECHNOLOGY IN BUILDING AND CIVIL ENGINEERING

#### EMT 3155/EET 3156: INTRODUCTION TO TECHNOLOGY EDUCATION

DATE: APRIL 2024

TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and any other TWO questions.

#### QUESTION ONE (30 MARKS)

a) What is meant by following terms:

- i) Technology Education (1 mark)
- ii) Technical education (1 mark)
- iii) Vocational Education (1 mark)
- iv) Training institution (1 marks)

b) State 4 vocational trades that were trained in the African traditional setting. (4marks)

c) State the benefits of internships and on-job attachment in engineering technology training (4 marks)

c) Discuss how the Education 2030 Framework for Action (FFA) is a preferred roadmap to sustainable technical education in Kenya (6 marks)

d) State four functions of each of the following organizations in relation to TVET in Kenya

- i) KETRB
- ii) TVET CDACCC
- iii) KNQA (12marks)

#### QUESTION TWO (20 MARKS)

a) Outline five legal requirements that must be fulfilled for a training institution to be registered to offer TVET training. (5 marks)



b) State the difference between Vocational training centre (VTC) and technical and Vocational College (TVC) as applied in TVET Act 2012. (4 marks)

c) Discuss the impact of colonialism to the African traditional skills and knowledge training (11 marks)

### **QUESTION THREE (20 MARKS)**

a) State five differences between the conventional education system approach and competency based approach. (5 marks)

b) State five challenges experienced in the implementation of technical education that may impact on its success. (5 marks)

c) In reference to your area of specialization discuss how knowledge and skills are transferred in the informal sector of Kenyan Economy. (10 marks)

### **QUESTION FOUR (20 MARKS)**

a) Briefly explain the three pillars of Kenya Vision 2030 (6 marks)

b) Discuss how science technology and innovation are anchored in the development of technical education (7 marks)

c) Discuss the impact of KV2030 towards improvement of the informal sector of Kenyan economy (7 marks)

### **QUESTION FIVE (20MARKS)**

a) Discuss actors that influenced change of technical education approach from the African traditional training to colonial educational training. (10 marks)

b) Discuss the factors that contributed to the redesign of technical education curriculum in the pre-independence era. (10marks)

