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UNIVERSITY EXAMINATIONS 2023/2024

FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN POST GRADUCATE
EDUCATION

ECG 4170: METHODS OF TEACHING TECHNICAL SUBJECTS

DATE: APRIL 2024

TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and any other THREE questions.

QUESTION ONE (24 MARKS)

- a. Explain the meaning of the following as applied to technical education. (2 marks)
 - i. Education Technology
 - ii. Vocational Education
- b. Discuss two roles of the Kenya National Examination Council (KNEC) in technical training programs (2 marks)
- c. Explain three benefits for industry involvement in the design and implementation of technical training programs? (3 marks)
- d. Explain three reasons for updating the record of work covered by the trainers in technical training (3 marks)
- e. With the aid of examples, explain the difference between summative and formative assessment in technical training (4 marks)
- f. Identify a specific task in your subjects of specialization and prepare the following:
 - i. A practical assessment tool with not more than two tasks for the candidate (5 marks)
 - ii. An observation/product checklist for the assessor (5 marks)



QUESTION TWO (12 MARKS)

- a. Discuss three benefits of competency Based Education and Training (CBET) in technical training for to the trainees. (6 marks)
- b. Discuss three roles of technology in facilitating Competency-Based Education and Training. (6 marks)

QUESTION THREE (12 MARKS)

- a. Describe three potential challenges a technical trainer is likely to face when collaborating with industry partners in developing Competency-Based Education and Training (CBET) program. (6 marks)
- b. Discuss three benefits of participating in the Kenya Engineering and Science Fair (KESF) for the trainees in technical education. (6 marks)

QUESTION FOUR (12 MARKS)

- a. Discuss three benefits of using group work as a method of instruction in a technical subject classroom. (6 marks)
- b. Discuss three factors to consider when choosing online learning resources for teaching in technical training. (6 marks)

QUESTION FIVE (12 MARKS)

- a. Explain three factors to consider when selecting teaching and learning activities for a technical training program? (3 marks)
- b. Explain three main elements of a well-designed scheme of work for technical training. (3 marks)
- c. Describe three strategies for ensuring effective collaboration between trainers and subject matter experts when creating schemes of work. (6 marks)

