



MACHAKOS UNIVERSITY

University Examinations for 2024/2025 Academic Year

SCHOOL OF EDUCATION
DEPARTMENT OF EDUCATIONAL COMMUNICATION TECHNOLOGY & ECE

THIRD YEAR FIRST SEMESTER EXAMINATION FOR DEGREE IN
BACHELOR OF EDUCATION (ECE)

ECE314: HUMAN LEARNING

DATE: 16TH JANUARY, 2025

TIME: 2.00 PM – 4.00 PM

INSTRUCTIONS:

*Answer question **ONE** (Compulsory) and any other **TWO** questions*

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Briefly Illustrate the Information Processing Theory of Learning. (10 Marks)
- b) State four ways in which one can enhance memory. (4 Marks)
- c) Outline any two Metacognitive tools that enhance Learning. (6 Marks)
- d) Explain how: EITHER
 - i) The principles of Classical Conditioning can be used in implementing a named activity in ECE. (10 Marks)
 - OR
 - ii) The principles of Operant Conditioning can be used in implementing a named activity in ECE. (10 Marks)

QUESTION TWO (20 MARKS)

Contrast the Cognitive Load Theory and the Constructivist Theory of Learning.

QUESTION THREE (20 MARKS)

ILLUSTRATE the importance of ONE the following theories of Motivation:

- i) Goal-orientation Theory
- ii) Expectancy-value Theory
- iii) Self-determination theory.
- iv) Self-Efficacy Theory
- v) John Keller's ARCS model for Instructional Design.

QUESTION FOUR (20 MARKS)

- a) Discuss Gagne's conditions of learning. (10 Marks)
- b) Explain how Gagne's conditions can enhance Early Learning Activities. (10 Marks)

QUESTION FIVE (20 MARKS)

Justify the statement that “Vygotsky’s Social Learning Theory and Bandura’s Observational Learning Theory can be integrated into the teaching of Language and Mathematics.