



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## University Examinations 2024/2025

THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE BACHELOR OF  
EDUCATION ARTS AND BACHELOR OF EDUCATION SCIENCE

### CIT 3305: EDUCATION INFORMATION SYSTEMS

DATE: JANUARY 2025

TIME: 2 HOURS

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INSTRUCTIONS: Answer question *one* and any other *two* questions

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#### QUESTION ONE (30 MARKS)

- a) Define the following terms
  - i. System (1 mark)
  - ii. Information. (1 mark)
  - iii. Data (1 mark)
- a) Discuss any five examples of features in EMIS that can enhance student performance tracking (5 marks).
- b) Differentiate between information system and system in an organization. (2 marks)
- c) Highlight five roles and responsibilities of lower level management in the education sector (5 marks)
- d) Analyze the impact of data quality on the effectiveness of EMIS in education (3 marks).
- e) An EMIS is typically involves several people and large-sized data. What are the ethical standards that should be observed when implementing and using an EMIS? (3 marks)
- f) Define the term levels of management with respect to the education sector (2 marks)

- g) Explain the two types of organization structures (4 marks)
- h) Explain the difference between data and information (4 marks)

**QUESTION TWO (20 MARKS)**

- a) EMIS systems have played a critical role in education Management. Discuss five qualities executive managers in education will evaluate in an EMIS before purchasing it. (10 marks)
- b) Discuss five hardware components and their roles in EMIS (5 Marks)
- c) Define educational management information system (EMIS) and explain its importance in the context of educational institutions (5 marks)

**QUESTION THREE (20 MARKS)**

- a) Education management information systems are integral in managing education. Explain Three sectors where these systems can be deployed in Meru University (6 marks)
- b) Discuss how educational management information system (EMIS) and explain its importance in the context of educational institutions (4 marks)
- c) Highlight the roles and responsibilities of the executive management within and educational institution (5 marks)
- d) Highlight decisions made at the lowest level of management in a university (5 marks)

**QUESTION FOUR (20 MARKS)**

- a) Outline the Steps towards developing an information management system for non-formal education (10 Marks)
- b) Using a diagram, illustrate the Flow of information within ministry of education (5 Marks)
- c) School management information system (SMIS) is a management information system designed to match the structure, management task, instructional processes and special needs of the school. Describe the Challenges of SMIS (5 marks)

**QUESTION FIVE (20 MARKS)**

- a) Trace the evolution of EMIS (10 marks)
- b). Using a diagram, illustrate the Flow of information within ministry of education (5 Marks)

- c) Using examples, highlight the types and examples of officers you -would find in various levels of .management within the education sector (5 marks)