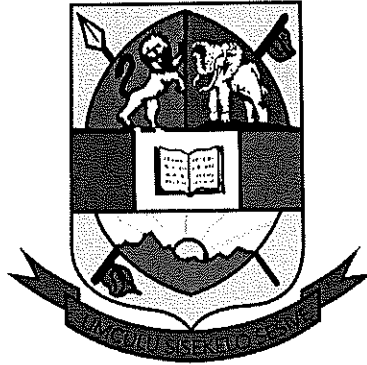


# UNIVERSITY OF ESWATINI



FACULTY OF SCIENCE AND ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE

## Resit Examination

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**Course Name:** Computer Applications

**Course Code:** CSC 104

**Time allowed:** Three (3) Hours

### INSTRUCTIONS TO THE CANDIDATES

- 1) Answer **ALL** questions in Section A and select any **three (3)** in Section B
- 2) Each question carries **twenty (20)** marks
- 3) This examination paper should **NOT** be opened until permission has been granted by the invigilator
- 4) Number of marks per each question is written at the end of each question

## SECTION A - Answer ALL Questions

### Question 1

- a) With the aid of examples, explain the term. " **Application software.**" [4 marks]
- b) With the aid of a diagram, explain the data processing cycle. [5 marks]
- c) Describe the functions of three major components of the Central Processing Unit [5 marks]
- d) Explain any **three (3)** functions of Operating systems [6 marks]

### Question 2

- a) Critically compare and contrast the utility software and Application software [8 marks]
- b) A computer system structure is made up with different components. With the aid of a diagram, explain the components of the computer system structure [8 marks]
- c) With the aid of examples, describe the difference between **if statement** and **nested if statements** in Microsoft Excel [4 marks]

## SECTION B - Choose any THREE (3) Questions

### Question 3

- a) Explain the benefits of using Moodle online learning platform [10 marks]
- b) Compare and contrast the use e-learning and traditional (face-to face) learning on the acquisition and retention of knowledge [10 marks]

### Question 4

- a) Describe the main components of a database [10 marks]
- b) Explain the differences between Data Definition Language (DDL) and Data Manipulation Language [10 marks]

### Question 5

With the aid of examples, describe the benefits and challenges of using Student response systems in a classroom setting [20 marks]

### Question 6

- a) Describe the functions of the following utility software:
  - i) disk clean-up,
  - ii) disk defragmenter
  - iii) backup [8 marks]
- b) Explain the characteristics of Database management System (DBMS) [12 marks]