REFORMED CHURCH UNIVERSITY

FACULTY OF EDUCATION AND SOCIAL SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE IN INFORMATION TECHNOLOGY

Database Management Systems

HICT 107

Part 1 Semester 2 Examination

Total Marks [100]

Date: July 2022

Time: 3 Hours

INSTRUCTIONS

1. This paper has *six (6)* questions

2. Answer any *four (4)* questions

3. Each question carries *25 marks*

4. Start each question on a new page

1. With the aid of a diagram examine DBLC in detail (25 marks)

2. Discuss the applicability of the Object Based Logical, Record Based Logical and the Physical Database Models as used in their areas of application.   (25 marks)

3. Briefly explain how the following people use the database
   a. Systems Developers (5 marks)
   b. Database Designers (5 marks)
   c. End Users   (5 marks)
   d. Programmers   (5 marks)
   e. Database Analyst   (5 marks)

4. (i) Explain the concept conceptual design. (5 marks)
   (ii) With the aid of well labelled diagram, briefly explain the steps performed during the logical and physical design stages. (20 marks)

5. Assess the applicability of any two design strategies in databases (25 marks)

6. Examine the significance of databases as corporate assets of an organization (25 marks)