NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATION SCIENCE

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

BACHELOR OF SCIENCE (HONOURS) DEGREE IN LIBRARY AND INFORMATION SCIENCE

PART II SECOND SEMESTER MAY 2013 EXAMINATIONS

ILI 2201: DATABASE APPLICATIONS IN ARCHIVES, LIBRARIES AND PUBLISHING

TIME: 3 HOURS

Instructions to candidates
1. Answer any <u>four</u> questions.
2. Give equal time to each question.
3. Each question carries 25 marks.
4. Importance is attached to clear presentation of ideas, good expression and legibility of handwriting.

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1. Your library has tasked you to draw up an advertisement for the post of a Database Administrator. Draft such a document that will clearly spell out the role and qualification, and skills required for such a position.   [25 marks]

2. As an Information professional faced with choosing among various Database Management Systems (DBMS), give a justified evaluation criteria.   [25 marks]

3. Discuss the implications of the adoption of electronic databases by libraries in Zimbabwe.
                                                                                [25 marks]

4. Critique the use of Object Oriented Databases in Public and Academic libraries.
                                                                                [25 marks]

5.1 Distinguish between a relational database model and a hierarchical database model.
                                                                                [5 marks]

5.2 Assess the importance of carrying out an ACID test on a database.   [20 marks]

6. The Zimbabwe Library Association(ZIMLA) is building a database of its members. Given the attached membership application form for Zimbabwe Library Association.

6.1 Identify entities, their attributes and data types. [7 marks]

6.2 Draw an Entity Relationship Diagram for the ZIMLA database. [8 marks]

6.3 Critique the notion of distributing the ZIMLA database. [10 marks]

END OF PAPER