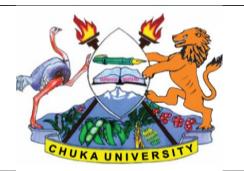
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EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN LIBRARY SCIENCE

LINS 450: INFORMATION SYSTEMS ANALYSIS

STREAMS: BSC (LINS) TIME: 2 HOURS

DAY/DATE: FRIDAY 07/12/2018 2.30 P.M. – 4.30 P.M.

INSTRUCTIONS: Answer question ONE and any other TWO

QUESTION 1 (30 MARKS)

(a)	Using a diagram, illustrate the phase of system analysis and design	[5 marks]
(b)	Explain the prototyping methodology	[5 marks]
(c)	Explain five advantages of using interview as a fact finding technique	[10 marks]
(d)	Explain "Economic feasibility" of a library project	[5 marks]
(e)	Explain five benefits of using relational database in system implementation	[5 marks]

QUESTION 2 (20 MARKS)

In the library management system, the following entities and attributes can be identified.

- (i) **Book**-the set all the books in the library. Each book has a Book-id, Title, Author, Price and available (y or n) as its attributes.
- (ii) **Member**-the set all the library members. The member is described by the attributes member_id, Name, Street, City, Zip_code, Mem_type, Mem_date (date of membership), Expiry date.

LINS 450

- (iii) **Publisher-**the set of all the publishers of the books. Attributes of this entity are Pub id, Name, Street, City, and Zip code.
- (iv) **Supplier**-the set of all the suppliers of the books. Attributes of this entity are Sup_id, Name, Street, City, and Zip_code.

Assumptions: a publisher publishes a book. Supplier supplies book to library. Members borrow the book (only issue). Return of book is not taken into account Return book is not taken into account

(a) What is an Entity?

[2 marks]

(b) Draw an Entity Relationship (E-R) diagrams for the above Library Management

System. [18 marks]

QUESTION 3 (20 MARKS)

Discuss the various stages in Dynamic System Development Method (DSDM)

QUESTION 4 (20 MARKS)

Discuss three different tools of collecting data and show the strength of each tool

QUESTION 5 (20 MARKS)

(a) Discuss the components of a system

[12 marks]

(b) Explain four benefits of post-implementation of Library System

[8 marks]

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