14.

(a) Suppose we informally derive the data in the What is an E-R diagram?

database of a department store as follows-Each employee is represented. The data number, name, about an employee are his employee department he works for. address

E managers and items sold. Each department is represented. The data about department are its name, employees.

(iii) price, model number (assigned by about an item are its name manufacturer, Each item sold is represented. The data manufacturer) and an internal item number (assigned by the store).

(iv) about a manufacturer are its name, address. Each manufacturer is represented. The data Give an ER diagram for the data base. items supplied to the store and their prices.

Note that some information may be represented by relationship. attributes and other may be represented by

0 of step. in brief with the document generated at the end What is an SDLC? Explain each step of SDLC

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B.C.A. (Semester-VI) Examination-2014 (New Course)

Information System: Analysis Design and Implementation Paper: Second

Time: Three Hours]

[Maximum Marks: 75

Note: Section A is compulsory. Attempt any seven questions Section C. from Section B and attempt any one question from

Section-A

Note: Both questions are compulsory. Each question carries 9 marks. (9x2=18)

or if the purchase is for 10,000 or more and the customer For the above stated problem use the following to is a regular customer" "Give a discount of 5% if the customer pays in advance, describe.

Decision Tree

Structured English

Decision Table

Management System. DFD. Draw Level 0 and Level 1 DFD for Library What is DFD? Explain the meaning of symbols used in

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Section-B

(Short Answer Type Questions)

Note: Attempt any seven questions. Each question carries 2 marks. (6x7=42)

- Give the brief description of process elicitation model for requirement analysis.
- What do you mean by Prototyping? List any three advantages and three disadvantages of prototyping.
- Describe the following terms in reference of object modeling-
- (a) Values and Attributes
- (b) Operations and Methods
- (c) Links and Association
- 6. What do you mean by software quality metrics? Explain in detail.
- Praw a class diagram to show the relationship between employee and company. In your class diagram show attribute, operation, Links, multiplicity and association classes.
- Explain the COCOMO model for cost estimation in brief.
- What is User Interface Design? Also explain the purpose and types of interfaces.

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10. What are the features of Data Dictionary? List the steps for creating data dictionary. Also list the reasons to use Data Dictionary.

- 1. Explain the SEI-CMM model in detail.
- What is system? Give any two definitions. List and explain the elements and characteristics of system.

Section-C

(Long Answer Type Questions)

Note: Attempt any one question. Each question carries 10 marks. (15x1=15)

- 13. (a) Differentiate between the following-
- (i) Black Box Testing and White Box Testing
- (ii) User Documentation and System

 Documentation
- (iii) MIS and DSS
- (iv) PERT chart and Gantt chart
- (b) In your opinion, what skills are required by system analyst?

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