**National College of Computer** **Studies**

**(NCCS-College of IT & Management)**

**Final Examination (2013)**

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| **BSc.CSIT/ Fourth Semester/ CSC 252: System of Analysis and Design** |

***Candidates are required to answer the questions in their own words as far as practicable.***

**Full Marks: 60**

**Pass Marks: 30**

**Time: 3 Hours**



**Set A**

**Group-A**

**Long Answer Questions (Attempt Any Two questions) [2×10=20]**

1. Explain the steps in the maintenance process and contrast them with the phase of the systems development life cycle.
2. Draw DFD up to level-2 the following specification of the system.

Suppose you are going to design an information system for a departmental store where a customer sends enquiry to commercial department; receives quotations from the sales department and places an order. Based on the customer order, the work order is sent to the planning department for planning scheduling and control, in turn, the planning department raises a job order on the “shop floor”. On completion, delivery note and invoice are made out costing department also prepares an otherwise comparative statement of estimated and actual costs.

1. What do you mean by requirement determination? Explain questionnaires and interview techniques for gathering the information with suitable examples.

**Group- B**

**Short answer questions (Attempt any Eight questions)** **[8×5=40]**

1. What is JAD? What are JAD participants? Explain
2. Differentiate between transaction processing systems (TPS) and management information system (MIS).
3. What is a prototype? Explain the prototyping methodology.
4. What are the three relationship types of E-R diagrams? How are these relationships paired to build an E-R diagram?
5. What do you mean by implementation plan? Explain.
6. What are the management skills needed by system analysts?
7. What is UML? Explain the types of UML diagrams.
8. What is the role of software application testing? Explain
9. What is Rapid Application Development? Explain the RAD life cycle.
10. What is normalization? Explain 2 NF and 3NF with examples

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**Set B**

**Group- A**

**Long Answer Questions (Attempt Any Two questions) [2×10=20]**

1. What do you mean by system requirement? What are the contemporary methods for determining system requirements? Explain the usages of JAD and Prototyping in requirement determination
2. What are the symbols used in DFD? Draw DFD up to level-2 the following specification of the system

Suppose you have to design a system for hotel management system in which front office of hotel is responsible for all room reservations, room allocations and final settlement of bills. Any company or person can reserve rooms for their future stay. They have to indicate from what date to what day they need the room. They also have to indicate how many rooms are required. Sometimes the reservations could be cancelled or the dates or number of rooms changed. For reservation, cancellation or modification or rooms, customer receives an acknowledgement from the hotel.

1. Differentiate between logical and physical database design. How can you transforming E-R diagram into relations? Explain with suitable example.

**Group- B**

**Short answer questions (Attempt any Eight questions)**  **[8×5=40]**

1. What is CASE tools? Explain the basic types of CASE tools.
2. What managerial issues can be better understood by measuring maintenance effectiveness? Explain.
3. Differentiate between state diagrams and sequence diagrams in object oriented analysis and design.
4. Differentiate between logical DFD and physical DFD? Explain with examples
5. What is testing? Differentiate between alpha and beta testing.
6. What do you mean by feasibility analysis? Explain the cost-benefit analysis with example.
7. What is SDLC? Explain the Products of SDLC phases.
8. What is a system? Explain the characteristics of a system.
9. What are the tools used by system analyst? Explain
10. The policy followed by a company to process customer order is given by the following rules:
11. If the customer order <= that in stock and his credit is OK, supply his requirement
12. If the customer credit is not OK do not supply. Send him intimation.
13. If the customer credit is OK but the items in stock are less than his order, supply what is in the stock. Enter the balance to be sent in a back-order file.

Obtain a decision table for the above policy

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