## KADI SARVA VISVAVIDHYALAYA

## MCA Semester II

Subject code: Subject Name: Systems Analysis & Design Date: 23-5-14 Time: 10 to 2 Total Marks: 50 Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. Q.1 Write short notes on the following: (a) Fact Finding Methods [4] (b) Data Dictionary [3] (c) Structured Walkthrough [3] (a) Fill in the blanks: [5] i. A/an \_\_\_\_\_ is the common boundary between the user and the computer system application. focusses on specifying what the system or application is required to do. iii. A system is said to have if it does not produce dangerous or costly failures when it is used in a reasonable manner. is a process of simplifying the relationship between data elements in a record. is a diagram that presents conditions and actions. Consider the process of depositing and withdrawal of money from a savings bank account in a nationalized bank. Draw a Context Flow Diagram, Level-1 and Level-2 data flow diagrams from the CFD. State any assumptions made. A bank uses the following rules to classify new accounts. If the depositor's age is 21 or above and if the deposit amount is ₹100 or more, then the account type is classified as A. If the depositor is under 21 and the deposit amount is ₹100 or more, then the account is classified as type B. If the depositor is 21 or above and the deposit amount is below ₹100, the account is classified as C. If the depositor is under 21 and the deposit amount is below ₹100, then no account is opened. Develop a decision table for the above mentioned bank for account classification decisions, where the condition alternatives are limited to Y or N. What are CASE tools? Describe the components of CASE tools. Q.3 (a) What is a systems prototype? When is the prototype method most [5] appropriate? Describe the prototyping process. Q.3 (a) How do messages facilitate user interaction with online systems? What are [5] the different type of messages? Explain the purpose of any two. (b) Under what circumstances is the use of graphic presentations advisable? Explain. Q.4 (a) What are coding methods? Explain the different types of coding methods in [5] P.T.O

(b) What is the objective of a PERT chart? What components make up the PERT chart? Explain the methods used for systems conversion. Briefly describe the 0.4 [5] purpose and contents of a conversion plan. Discuss the six special system tests. Explain the purpose of each. (b) [5] What is the purpose of systems training? How do user and operator training Q.5 [5] differ? State the advantages and disadvantages of in-house and in-service Outline the concerns a purchaser should have when contracting for software. [5] Explain the importance of each concern. (a) What is a data model? Explain in brief the data models used in database Q.5 [5] management system. (b) Compare and contrast the various project team concepts. [5]

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