M.C.A. Semester: - 2 Examination

Paper Code: 2909   Paper Title: System Analysis & Design

Time: 02:00 Hours   Marks: 70

Q.1   **Answer any FOUR from the following:**   [16]

   a. What are the advantages & disadvantages of Questionnaire method?

   b. Explain data dictionary.

   c. Differentiate Integration & System testing.

   d. Explain Open System.

   e. When the Tabular format is appropriate to display output? Give example.

   f. Explain Feasibility Study?

Q.2   **Answer any THREE from the following:**   [15]

   a. What are the major types of output can be generated from a system?

   b. Write a note on system prototype method.

   c. Write a note on decision table with suitable example.

   d. What is Coupling and Cohesion?

   e. What do you mean by error? Discuss various error messages.

Q.3   **Answer any THREE from the following:**   [18]

   a. Explain Interview as Fact Finding Technique.

   b. Differentiate White box Testing and Black box Testing in detail.

   c. Explain Structured English w.r.t System Analysis and Design.

   d. Explain the components of structured analysis.

   e. What are the methods for checking the transaction data?

Q.4   **Answer any THREE from the following:**   [21]

   a. Explain Data Flow Diagrams in detail.

   b. Write a detailed note on System Design.

   c. Write a detailed note on SDLC.

   d. Write a detailed note on various Information System Categories.

   e. What is Decision Tree? Draw a decision tree based on following conditions.
      1. If transaction is on credit and customer's record is good the order will be accepted but do not give any discount.
      If customer's record is not good do not accept any order.
      2. If transaction is on cash and sells amount is more than 100 rupees discount will be given 20%.
      3. If transaction is on cash and sells amount is between 50 & 100 rupees than discount will be given 10%.
      4. If transaction is on cash and sells amount is less than 50 rupees, order is accepted but no discount will be made.