No. of Printed Pages : 3

MCS-014

09047 Term-End Examination June, 2012 MCS-014 : SYSTEM ANALYSIS AND DESIGN Maximum Marks : 100 Time : 3 hours (Weightage: 75%) Question No.1 is compulsory. Attempt any three Note : questions from the rest. What are different phases in SDLC ? What 10 1. (a) is need of System Analysis ? Explain the role of System Analyst. 10 Draw a Data Flow Diagram (DFD) till (b) second level Depicting the various processes, data flow and data repositories for a "Petrol - Pump retail outlet". What is meant by "System Design 9 (c) Specification" ? Explain the purpose of the following system design tools : Object Interaction Diagram (i) Inheritance Diagram (ii) Aggregation Diagram (iii) What is DSS ? Explain various components 6 (d) briefly with the help of a suitable diagram.

MCA (Revised)

MCS-014

1

P.T.O.

- (e) What is reverse engineering ? Explain the 5 need of reverse engineering with an example.
- (a) What are object oriented Case Tools ? List 10 basic features of OO Case Tools. Also write differences between various types of OO Case Tools.
 - (b) What is on line transaction processing ? 10 Give an example of on - line transaction processing. Also differenciate between on - line transaction, processing and batch processing.
- 3. (a) What is transaction audit ? Explain four 10 advantages of transaction audit.
 - (b) What is Joint Application Development 10
 (JAD) ? Explain six typical participants in a JAD.
- 4. (a) What is need of software testing? Describe 10 the objectives of the following testing techniques :
 - (i) Stress Testing
 - (ii) Performance Testing
 - (iii) Recovery Testing
 - (iv) Security Testing

MCS-014

2

- (b) What is need of standard software 10 documentation ? Explain any three documentation standards briefly.
- 5. (a) Briefly, discuss various criteria for Form and 10 Report design, using an example.
 - (b) Write a short note on following : 5x2=10
 - (i) Coupling and cohesion
 - (ii) Distributed system