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COMP 4 – 5 (RC)

S.E. (Comp.) (Semester – IV) (RC) Examination, May/June 2013
SYSTEM ANALYSIS AND DESIGN

Duration : 3 Hours

Max. Marks : 100

Instructions : *i) Answer **any five** questions, atleast **one** from each Module.*
*ii) Make suitable assumptions **if necessary**, state **clearly***
assumptions made.

Module – I

1. a) Explain the characteristics of a system w.r.t the fell :
      i) a coffee shop information system
      ii) a payroll information system.   10

   b) Differentiate between the following system models :
      i) Flow system model
      ii) Static model
      iii) Dynamic model.   10

2. a) Where do ideas for a proposed system originate ? To what extent does the
      analyst assist in this regard ?   7

   b) In a feasibility study a 'must' for a project ? Discuss its contents and its
      implications.   8

   c) Explain the role of a technical writer in a SDLC project.   5

Module – II

3. a) Discuss the bases for planning in system analysis.   5

   b) With a neat block diagram explain the conceptual model for MIS strategic
      planning.   10

   c) What are the difficulties in determining user requirements ?   5

4. a) A soft drink manufacturing plant wants to automate its information system.
      Identify the different categories of information for this setup.   8

   b) Discuss the different observation methods employed for information gathering.   8

   c) With an appropriate example discuss the reliability – validity issue in information
      gathering.   4

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Module – III

5. a) Draw a neat DFD for a bookstore information system. 8

   b) Compare HIPO to DFD. Are they alternatives or complementary. 8

   c) Explain the following processing controls with examples. 4
      i) completeness check
      ii) consistency check.

6. a) Discuss the three major approaches to online data entry. Give examples of each. 8

   b) Describe the different entity relationships at the different types of data structure. 8

   c) What is normalization ? What is its objective ? List the different normal forms. 4

Module – IV

7. a) Draw and explain the activity network for system testing. 10

   b) State and explain the factors used for measuring quality of a system. 10

8. a) What are the primary activities of a maintenance procedure ? Use a neat diagram to explain. 12

   b) Discuss the different strategies and tactics used in the art of negotiation. What are the characteristics of good negotiation in terms of bid, award and conclusion ? 8