Sem- IV M Repeat 18/12/13

comp Dept

COMP 4 – 5 (RC)

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

Duration : 3 Hours | Total Marks : 100

Instructions : *1) Answer **any five** questions, at least one from **each** Module.*
*2) Make suitable assumptions, **if necessary** state clearly assumptions made.*

MODULE – I

1. a) With a neat diagram explain the management and information levels in a typical organization. Explain the characteristics of information required at different management levels. **8**

   b) Consider an automobile and a hospital as two systems identify the elements of each system. **6**

   c) Distinguish between initial investigation and feasibility study. Explain how they are related ? **6**

2. a) Differentiate between interpersonal skills and technical skills of system analyst. **8**

   b) Explain and illustrate situations how the different roles of a system analyst are best applied in the system development life cycle ? **7**

   c) State and explain the primary attributes of a project leader. **5**

MODULE – II

3. a) Draw DFD for a soft drink manufacturing plant information system.

   OR

   Draw DFD for a multinational bank information system. **10**

   b) Explain the following with examples :

   i) Decision tree

   ii) Decision table

   iii) Structured English. **10**

P.T.O.

4. a) Discuss the following cost evaluation methods with an example of each :

   i) Net benefit analysis

   ii) Break even analysis

   iii) Cash-flow analysis. 9

   b) Give the logical data description hierarchy in a data dictionary. Explain the description of each component in the hierarchy. 11

MODULE – III

5. a) What is Structured Design ? How is it related to DFDs ? 6

   b) Relate HIPO charts to structured design and discuss its objectives. 8

   c) How are forms classified ? Give characteristics of each class. 6

6. a) Discuss the following form layout considerations : 10

   i) Form title and number

   ii) Data classification

   iii) Data zoning

   iv) Rules and captions. 10

   b) Explain the following terms w.r.t. data bases :

   i) Controlled redundancy

   ii) Data independence

   iii) Data accuracy

   iv) Data integrity

   v) Data privacy.

MODULE – IV

7. a) With a neat block diagram explain the components of risk analysis. 8

   b) Illustrate the grandfather-father-son approach to backup of data. 6

   c) Discuss the ethics codes and standards of behaviour for computer professionals. 6

8. a) What are the major threats to system security ? Which is the most serious threat ? Why ? 8

   b) Discuss the following planning tools. Give examples of to illustrate the use of each tool.

      i) Gnatt chart

      ii) PERT. 12