18/12/14 - Repert

COMP 4 - 5 (RC)

S.E. (Computer) (Semester - IV) (RC) Examination, Nov./Dec. 2014 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. MODULE-I 1. a) Write a note on analyst/user differences. 5 b) Discuss the different factors which influence project selection. 4 c) Differentiate between the initial investigation and feasibility study. 5 d) Explain the different elements of a system with the help of an example. 6 2. a) Discuss the reasons for project termination and software failure. 6 b) What is system design? Explain the various steps undertaken during system design. 5 c) What is an open system ? Explain its characteristics. 5 d) Differentiate between: 4 a) Team approach and pool approach b) Manager and analyst. MODULE - II 3. a) Draw a data flow diagram for a email service : 1 i) A member must register to use the email service ii) After registering the user must login using the user name and password to send or view emails received. b) Briefly explain the steps of feasibility analysis. 8 c) Explain the different information gathering methods. 8 4. a) Explain the basis of planning in system analysis. 3 b) Briefly explain the different tools of structured analysis with an example. 7 c) Write short notes on : 6 i) Technical feasibility ii) Behavioural feasibility iii) Economic feasibility. P.T.O.

COMP 4 - 5 (RC) d) A major brokerage firm wishes to have : 4 i) List of customers who have sold less then 100 shares ii) List of customers who sold 100 or more shares which contain two types of customers individual stock holders and stocks held by a financial institution. Draw a decision tree to represent this information. MODULE - III 5. a) Explain different types of databases, structures and the types of relationships possible in each structure. 10 b) What is the goal of designing input data? List and explain all the input media and devices used for inputting source data. 8 c) Illustrate how a 5 inch paper can be divided into 13 writing lines. 2 6. a) Discuss importance of normalization. Explain the steps involved in it. 8 b) Explain briefly three approaches of data entry. 6 c) Write short note on: 6 i) HIPO and IPO chart ii) Data classification and zoning iii) Paper selection and spacing requirement. MODULE-IV 7. a) What is implementation? How does it differ from conversion? Elaborate. 6 b) Explain the major activities in conversion. Which activity is most important? Why? 6 c) Explain the activity network for system planning. 8 8. a) What are the elements of user training? Explain in detail. 6 b) List and explain the three types of system failures and how to recover from them. 6 c) What design specifications are considered in preparing a test plan? Explain.

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d) Write short note on attributes of software.