(2064)

14687

B. Tech 4th Semester Examination

System Analysis & Design (O.S.)

IT-4004

Time : 3 Hours   **Max. Marks : 100**

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, selecting one each from Sections A, B, C and D. Section E is compulsory.

SECTION - A

1. Describe a Library as a system. What is the input, the output, the boundary, the components, their inter-relationships, the constraints the purpose, the interfaces, the environment? Draw a diagram of this system.   (20)

2. Discuss the role of cost and benefits analysis in developing a system.   (20)

SECTION - B

3. Discuss the importance of data flow diagrams. What is the difference between a data flow diagram and context diagram?
                                                            (20)

4. How are the user's requirements ascertained? Discuss important tools for gathering users' requirements.   (20)

SECTION - C

5. Explain in detail how printed reports are designed.   (20)

6. Discuss the designing process of database design.   (20)

SECTION - D

7. Discuss the importance of documentation and its needs. (20)

8. What do you understand by system support activities and maintenance activities?   (20)

SECTION - E

9. (i)   What is System Analysis and Design? Discuss the duties of a System Analyst.

   (ii)   What is System development life-cycle?

   (iii) What do you mean by Feasibility study?

   (iv)   What is a Cost and Benefit analysis?

   (v)   What is the difference between integration testing and module testing?

   (vi)   What are the training needs for the system implementation?

   (vii) What advantages do decision tree present from analysis?

   (viii) What do you mean by interview? What care must be taken while interviewing informers while collecting the information about an existing system?

   (ix)   Why do we have proper input/output forms?

   (x)   Why we do System Requirement Specification ? What are the techniques used for SRS?   (2×10=20)