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B.Tech 4th Semester Examination

System Analysis & Design

II-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 supplementar/y continuation sheet will be issued.

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

SECTION - A

1. Describe three main documentation tools used at various stages of SDIC.   **(20)**

2. What is Feasibility analysis? Explain the steps in feasibility analysis.   **(20)**

SECTION - B

3. A car rental company wants to develop an automated system that would handle car reservations, customer billing and car auctions. Usually a customer reserves a car, picks it up and then returns it after certain period of time. When car is returned, the customer receives a bill and pays the specified amount. In addition to renting out cars, every six months of so, the auto rental company auctions the car that have accumulated over 20,000 miles. Draw the ER diagram for the system.   **(20)**

4. What do you mean by fact finding techniques? Describe all the important techniques in brief. **(20)**

SECTION - C

5. Discuss hierarchical and Relational Database Design concepts. **(20)**

6. What is an input design? Discuss the importance of human computer interaction. **(20)**

SECTION - D

7. What are the steps in the implementation of the system? Explain with example. **(20)**

8. What do you understand by system operation and support? How can the system performance be managed? **(20)**

SECTION - E

9. (i) What do you mean by system? What are its elements and characteristics?

   (ii) How we can do cost and benefit analysis for the development of information system?

   (iii) What is the difference between inspections and walkthroughs?

   (iv) What are decision tables? What are the different forms of decision tables?

   (v) Why do we test systems? How important is testing?

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

(vii) What is a data-dictionary?

(viii) What is Bottom-up system development approach?

(ix) What are the limitations of structured English as a tool to analyse/design a system?

(x) What do you mean by HIPO chart? **(2×10=20)**