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**S.E. (Information Technology) (Semester- III) (Revised Course 2007-08)**  
**EXAMINATION MAY/JUNE 2019**  
**System Analysis & Design**

[Duration : Three Hours]

[Max.Marks : 100]

**Instructions:**

- 1) Answer ANY 5 by selecting ATLEAST ONE QUESTION from EACH module.
- 2) Make suitable assumptions IF necessary.

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|-----|---|----|
| Q.1 | a. Explain the different phases of SDLC.  | 08 |
|     | b. Briefly explain the elements of a system.  | 06 |
|     | c. Explain 'rising position' in system development. What are the tasks performed in this position?          | 06 |
| Q.2 | a. What are the interpersonal and technical skills required by a system analyst?                            | 08 |
|     | b. Explain the term 'Paraprofessional'.   | 04 |
|     | c. With a neat diagram explain the 'Herbet Simon' decision making process.                                  | 06 |
|     | d. Distinguish between interaction and independence.  | 02 |
| Q.3 | a. Explain the strategies required for determining information requirements.                                | 07 |
|     | b. Explain any 2 tools used for structured analysis in SDLC.  | 08 |
|     | c. Explain interviews as a method of information gathering.   | 05 |
| Q.4 | a. Explain with examples:   | 10 |
|     | (i) Tangible and Intangible cost and benefit.   |    |
|     | (ii) Direct and Indirect cost and benefit   |    |
|     | b. Draw and describe a Data Flow Diagram (DFD) for a Library Management System.                             | 10 |
| Q.5 | a. What is a form? How can forms be classified?   | 04 |
|     | b. Explain the goal of input design and output design.  | 04 |
|     | c. Explain the concepts of coupling and cohesion with examples.   | 08 |
|     | d. Explain the role of database administrator.  | 04 |
| Q.6 | a. Discuss the advantages of indexed sequential organization over sequential organization.                  | 08 |
|     | b. How does an absolute address differ from a relative address?   | 04 |
|     | c. What are the major development activities carried out during structured design? Explain with an example. | 08 |
| Q.7 | a. Why is user training important? Explain with an example.   | 06 |
|     | b. What is 'computer contract'? Explain the contents of a contract checklist.                               | 06 |
|     | c. Define Conversion with a diagram. Describe the activity network for conversion.                          | 08 |

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|-----|---|----|
| Q.8 | a. What are the threats to system security?                     | 06 |
|     | b. What level of quality assurance must a system meet? Explain. | 06 |
|     | c. Explain disaster recovery planning.                          | 08 |