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24-CS-41

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION  
JUNE - JULY 2024**

**COMPUTER SCIENCE**

Paper - I

**[System Analysis and Design]**

*[Max. Marks : 75]*

*[Time : 3:00 Hrs.]*

*[Min. Marks : 26]*

**Note :** Candidate should write his/her Roll Number at the prescribed space on the question paper.  
Student should not write anything on question paper.  
Attempt five questions. Each question carries an internal choice.  
Each question carries **15 marks**.

**Q. 1** List all the phases of system development life cycle in order and explain them in detail. (15 Marks)

**OR**

**a)** Explain the system design and its types. (07 Marks)

**b)** What are the input and output for system design. (08 Marks)

**Q. 2** Distinguish between initial investigation and feasibility study. In what way are they related ? (15 Marks)

**OR**

Explain -

i) Technical Feasibility.

ii) Operational Feasibilities.

iii) Economic Feasibilities.

**Q. 3 a)** Which tool is used for structured design ? (08 Marks)

**b)** What is data dictionary as a tool for structural analysis ? (07 Marks)

**OR**

Explain -

i) Data Flow Diagram.

ii) Gantt Chart.

iii) Decision Tree and Decision Tables.

**P.T.O.**

- Q. 4 a)** What are Management Standards ? (08 Marks)
- b)** Describe quality assurance and system security. (07 Marks)

**OR**

What is meant by Risk Analysis and What are the main components of Risk Analysis ? (15 Marks)

- Q. 5 a)** What are the 3 elements of the EDP system ? (5 Marks)
- b)** Write note on selection of Data processing resources. (10 Marks)

**OR**

- a)** What are the job responsibilities and duties of EDP ? (8 Marks)
- b)** Discuss the concepts of hardware and software procurement. (7 Marks)

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