M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION MAY - JUNE 2025

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 all five questions. Each question carries an internal choice.
Each question carries **15 marks.**

Q. 1 Explain System Development Life Cycle (SDLC) in detail.

OR

a) Explain system concept. What are the different elements of a system.

b) What is Information System ? Discuss the various types of Information System.

Q. 2 What do you understand by initial investigation ? Discuss various tools for information gathering.

OR

Write short note on -

i) Cost Benefit Analysis.

ii) Feasibility Study.

Q. 3 What is Data Flow Diagram (DFD) ? Explain DFD in detail by taking an example.

OR

Describe briefly -

i) IPO and HIPO chart.

ii) Gantt charts.

iii) Data dictionary.

Q. 4 a) Describe system testing and quality assurance.

b) Discuss system implementation and also the steps of system implementation.

<div align="center">**OR**</div>

Discuss following terms -

i) System Security.

ii) Management Standards.

Q. 5 a) Define EDP and discuss essential features in EDP.

b) Discuss the data processing resources with their advantages and disadvantages.

<div align="center">**OR**</div>

Write short note on -

i) Hardware and Software Procurement.

ii) Duties of EDP Personals.

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