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M.Sc. (Semester-IV) Examination, June-2025
(Backlog)

COMPUTER SCIENCE
(System Design and Software
Engineering)

Time Allowed : Three Hours

Maximum Marks : 70

Note : This question paper is divided into **two** sections. Attempt questions of **Both** sections as per direction. Distribution of marks is given in each section.

SECTION-A

(Objective Type Questions)

Note : Attempt **any five** questions. Each question carries 2 marks. [5×2=10]

1. (i) _____ shows the decision rules that apply when certain conditions occur.

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(1)

[P.T.O.]



- (ii) Distribution of information is represented by the_____.
- (iii) The_____analysis method identifies the top-level components of a complex system.
- (iv) The third phase in the system life cycle is the_____phase.
- (v) The systems design report presents the_____versus the benefits.
- (vi) Most organizations spend more time and money on the_____phase then on any of the other.
- (vii) _____of the system follows the acquiring of software and hardware.

SECTION-B

(Long Answer Type Questions)

Note: Attempt any five questions. Each question carries 12 marks: [5×12=60]

- 2. (i) Explain the concept of Software Design, with example.

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- (ii) Write the phases of system analysis and design with example.
- (iii) What is prototyping? Explain with case study.
- (iv) What is feasibility study? Explain with Cost and Benefit Analysis.
- (v) Define DFD. Explain various symbols used in DFD. Give suitable example describing DFD.
- (vi) Explain the following:
 - (a) Quality and Quality factors
 - (b) Maintenance and its types
- (vii) Define software testing? Also differentiate between Black box Testing and white box Testing methods.

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