CB

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MASTER OF COMPUTER APPLICATIONS (MCA)
EXAMINATION : DECEMBER - 2025
SEMESTER - I

Sub : Software Engineering (MCA24-105)

Date : 29/12/2025 | **Total Marks : 60** | **Time: 10.00 am To 12.30 pm**

Instruction:

1. *All questions are compulsory unless and otherwise stated.*
2. *Bold figures to the right of every question are the maximum marks for that question.*
3. *Candidates are advised to attempt questions in order.*
4. *Answers written illegibly are likely to be marked zero.*
5. *Use of scientific calculators, Log tables, Mollier Charts is allowed.*
6. *Draw neat and labelled diagram wherever necessary.*

Q. 1. Answer the following in 2 - 3 lines. (Any 5) (10)

1. What is a software process model?
2. What is system?
3. Define UML.
4. What is SRS?
5. Define class diagram.
6. What is CLD?
7. Define decision table.

Q. 2. Answer the following in short. (Any 4) (20)

1. List and explain types of the system
2. Explain the waterfall model with a diagram.
3. Describe MIS with diagram.
4. Describe system design in detail
5. Explain why models are used?
6. Describe FDD with example.

Q. 3. Answer the following in detail. (Any 3) (30)

1. Explain purpose of UML. Describe features of UML.
2. Describe RAD model.
3. Explain functional and non functional requirements in software project.
4. List and explain fact finding tools and techniques.
5. Draw a use case diagram and class diagram for the online shopping application.