



K25P 3326

Reg. No. : .....

Name : .....

III Semester M.C.A. Degree (CBSS – Reg./Supple./Imp.) Examination,  
November 2025

(2022 Admission Onwards)

MCA3E02 : SOFTWARE ARCHITECTURE

Time : 3 Hours

Max. Marks : 60

SECTION – A

Answer **all** questions. **Each** question carries **two** marks.

1. Define software architecture in the context of the software life cycle.
2. Mention any two key architectural principles.
3. What is meant by conceptual architecture view ?
4. List two styles of mobile view type.
5. Define archetype with an example.
6. What is meant by literate modelling ?
7. Define service oriented architecture.
8. List any two service extension patterns.
9. What are adaptable systems ?
10. Define pattern languages.

(10×2=20)

P.T.O.



SECTION – B

Answer **all** questions. **Each** question carries **eight** marks.

11. a) Explain common application architecture with suitable examples.

OR

11. b) Discuss the factors affecting architecture development of software.

12. a) Explain component and connector view type with suitable styles.

OR

12. b) Discuss documenting behaviour and building documentation package.

13. a) Explain Customer Relationship Management (CRM) archetype pattern in detail.

OR

13. b) Discuss creational patterns with suitable examples.

14. a) Explain communication patterns in detail with examples.

OR

14. b) Discuss service variation and adaptation patterns.

15. a) Explain the patterns for concurrent and networked objects.

OR

15. b) Describe frameworks and patterns for interactive systems.

(5×8=40)