



K23P 0064

Reg. No. :

Name :

III Semester M.C.A. Degree (C.B.S.S. – Reg./Supple./Imp.)
Examination, November 2022
(2020 Admission Onwards)
MCA3E02 : SOFTWARE ARCHITECTURE

Time : 3 Hours

Max. Marks : 60

SECTION – A

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

1. What is software architecture ?
2. List the factors affecting architecture development of a software system.
3. What is code architecture ?
4. What are view and view type ?
5. Explain literate modeling.
6. What are design patterns ?
7. What are communication patterns ?
8. What is SOA ?
9. What is adaptable system ?
10. What are pattern languages ?

(10x2=20)

SECTION – B

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

11. A) Explain various design principles required for a good software design.

OR

- B) What are the need for software architectural styles ? List and explain the common architectural styles in use with example.

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12. A) Write a note on documenting software interfaces and behaviors.

OR

B) Explain different architectural views.

13. A) Write a note on creational patterns. List and explain the uses of any two creational patterns.

OR

B) What are archetype patterns ? Explain model driven architecture of archetype patterns.

14. A) What are structural patterns ? Explain.

OR

B) Differentiate service variation patterns and service extension patterns.

15. A) Explain analysis patterns in detail.

OR

B) Write a note on patterns of resource management.

(5×8=40)

