



K16P 0720

Reg. No. :

Name :

IV Semester M.C.A. Degree (Reg./Supple./Improve.) Examination, July 2016
(2014 Admn.)

MCA4C20 : SOFTWARE ENGINEERING

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **any ten** questions. **Each** question carries **three** marks.

1. Mention the various characteristic features of Software Engineering.
2. List the different software applications.
3. What are the myths of Software Engineering ?
4. What are the design issues of the software risk ?
5. Mention the merits of software scheduling.
6. Compare and contrast risk projection and risk refinement.
7. Mention the various steps involved in formal technical reviews.
8. How to distinguish validation and verification stages on software engineering ?
9. Mention the flow behavioural of web applications.
10. How architecture design is different from content design ?
11. Compare and contrast between user interface testing and content testing.
12. Mention the goals of software re-engineering.

P.T.O.



SECTION – B

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

13. a) List out various process models of software engineering. Explain the importance of each one with suitable examples. 10
- OR
- b) i) Explain the role of Software Engineering in any development application process. 5
- ii) What are the merits of agile development process in software engineering? 5
14. a) What are the characteristic features of software metric? Discuss the merits and demerits of the size oriented metrics of the software project briefly. 10
- OR
- b) Discuss the various activities involved in project planning. Explain with suitable examples. 10
15. a) What are the characteristics and components of the software requirement specification? Explain with suitable examples. 10
- OR
- b) List out the various design principles of Software Engineering. Explain the abstraction and modularity concepts with suitable examples. 10
16. a) Explain the classification of requirements modeling in software engineering with suitable examples. 10
- OR
- b) i) Discuss the golden roles of user interface design. 5
- ii) Compare and contrast features of content, architecture and navigation design. 5
17. a) What are the significant features of software testing? Discuss the strategies of any two testing techniques. 10
- OR
- b) Compare and contrast verification and validation. Discuss briefly static and dynamic testing technologies with suitable examples. 10