



K18P 0750

Reg. No. :

Name :

**Fourth Semester M.C.A. Degree (Regular/Supplementary/Improvement)
Examination, July 2018
(2014 Admission Onwards)
MCA 4C20 : SOFTWARE ENGINEERING**

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **any ten** questions. Each question carries **three** marks. (10×3=30)

1. Define software process technology.
2. What is the need for software engineering ?
3. List the attributes of Effective Software Metrics.
4. List the characteristics of object oriented design In metrics for the design model.
5. What is coupling factor ?
6. Compare informal review and formal technical review.
7. What are the uses of SQA plan ?
8. List the elements of configuration management system.
9. What is the need of high cohesion and low coupling in designing software ?
10. What is refactoring in design activity ?
11. Compare verification and validation.
12. Define smoke testing. What are the activities involved in it ?

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SECTION – B

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

(5×10=50)

13. a) Explain water fall model with a neat diagram. 10
OR
b) Explain spiral model with neat diagram. 10
14. a) Explain the following concepts of risk management : 10
i) Risk identification
ii) Risk projection
OR
b) Explain project scheduling in detail. 10
15. a) Explain the various communication principles to be followed. 10
OR
b) Explain elements of software quality assurance. 10
16. a) With a neat diagram explain the user interface design process. 10
OR
b) What are the various architectural styles ? Explain each style briefly. 10
17. a) Explain software reengineering process model with a diagram. 10
OR
b) With a neat diagram explain the debugging process. 10
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