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 ?

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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