K17P 1081

Fourth Semester M.C.A. Degree (Regular/Supplementary/Improvement) Examination, July 2017
(2014 Admission Onwards)
MCA4C20 : SOFTWARE ENGINEERING

Time : 3 Hours

Max. Marks : 80

SECTION – A

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

1. Give the merits and demerits of prototyping model.

2. Compare and contrast process and the product.

3. What are the web applications of software engineering ?

4. Mention the various design metrics for web applications.

5. What are the merits of Earned Value Analysis ?

6. Compare and contrast reactive and proactive risk strategies.

7. What are the informal reviews of the software engineering ?

8. How to distinguish static and dynamic testing technologies ?

9. What are the golden rules of interface design ?

10. Mention the various design goals of web application design.

11. What are the design issues of the testing strategies ?

12. Mention the merits of performance and security testing.

(10×3=30)

P.T.O.

SECTION – B

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

13. a) Discuss the significance of feasibility in software development. Explain with suitable examples.   10

   OR

   b) Compare and contrast iterative enhancement model and spiral model w.r.t to software process with suitable examples.   10

14. a) What is software metric ? Discuss the merits and demerits of the size oriented metrics of the software project.   10

   OR

   b) What are the different types of risks associated with software development, suggest some possible ways of assessing and controlling the risks ?   10

15. a) What are the properties of software maintenance, discuss the major activities of software quality assurance ?   10

   OR

   b) i) Compare and contrast software quality and reliability.   5

      ii) What are the properties of a good software requirement specification ?   5

16. a) Describe the various requirements modeling approaches in software engineering with suitable example.   10

   OR

   b) Explain design goals, rules and various design approaches of web application with suitable examples.   10

17. a) Explain the merits and demerits of white box and black box testing with suitable examples.   10

   OR

   b) i) Compare and contrast validation and verifying.   5

      ii) How software maintenance is different from software reengineering ?   5

————————