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Total No. of Questions: 09

Total No. of Pages: 02

MCA (Sem. 3)
SOFTWARE ENGINEERING & PROJECT MANAGEMENT
Subject Code: MCA-303
Paper ID: 74075

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. **SECTIONS- A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.**
2. **SECTION-E is COMPULSORY carrying TWENTY marks in all.**
3. **Use of non-programmable scientific calculator is allowed.**

SECTION A

1. (a) What is software crisis?
(b) Differentiate between program and product.
2. What is the use of spiral model in software development process? What are advantages and disadvantages of using this model? Explain.

SECTION B

3. What is software requirement specification (SRS)? What are the characteristics of good SRS document? Explain.
4. (a) Differentiate between cohesion and coupling.
(b) Draw the sequence diagram to renew book from library.

SECTION C

5. (a) Explain the main strategies to plan for risk containment.
(b) What is the use of PERT charts in project scheduling? Explain.
6. Explain the strategies used for white-box testing techniques.

SECTION D

7. (a) Explain the features of ISO 9126 requirements.
(b) Differentiate between reverse engineering and forward engineering.
8. What is CASE environment? Explain its benefits.

SECTION E

- 9.
- (a) What is methodology?
 - (b) What is incremental model?
 - (c) Define first level factoring.
 - (d) Define unit testing.
 - (e) Define functional cohesion.
 - (f) Explain change control.
 - (g) Discuss the use of COCOMO model.
 - (h) Differentiate between rigor and formality.
 - (i) Differentiate between error and failure.
 - (j) Differentiate between verification and validation.