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Total No. of Pages: 01
Total No. of Questions: 09

MCA (Sem.-3rd)
SOFTWARE ENGINEERING
Subject Code: MCA-303
Paper ID: B1159

Time: 3 Hrs.

Max. Marks: 100

INSTRUCTIONS TO CANDIDATE:

1. Attempt any One questions from Section A, B, C and D
2. Section E is compulsory.

SECTION A

1. What do you mean by Software metrics? Discuss in brief the various characteristics of ideal software metrics. (20)
2. Explain in detail problem analysis and requirements specification. (20)

SECTION B

3. Compare various design methodologies used in object-oriented design. (20)
4. What is software design? What is its need? How design of software related to evaluation of software? Categorize software design (20)

SECTION C

5. What is the significance and goals of software testing? Explain various testing strategies. (20)
6. Write short notes on the following: (20)
 - a. Verification and validation
 - b. Integration and System Testing

SECTION D

7. Explain in detail the tools used for analysis of any Software system. (20)
8. Explain in detail the various cost estimation models used in Software Engineering. (20)

SECTION E

9. Answer Briefly: (20)
 - a. What is testing?
 - b. What is meant by fault and failure?
 - c. Define risk.
 - d. What is operational feasibility?
 - e. What is white box testing?
 - f. List and explain what various cost estimation techniques are?
 - g. What is a prototype?
 - h. Explain waterfall model?
 - i. Compare and contrast software quality assurance and software testing.
 - j. What is the purpose of design documentation?

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