

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2125)

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MCA 3rd Semester Examination
Software Engineering (NS)
MCA-305

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, selecting one question each from Section A, B, C and D. Section E is compulsory.

SECTION - A

1. (a) What is a Software Process? Discuss various characteristics of a Software Process. (7)
(b) What is Software Requirements Specifications (SRS)? What is the need of SRS? (5)
2. (a) How Waterfall model of Software development is different from Incremental Process model? (7)
(b) What are the goals of Software Engineering? (5)

SECTION - B

3. Discuss Component & Connector architecture view of a system with the help of an example. (12)
4. Discuss risk management activities in detail. (12)

SECTION - C

5. (a) Discuss various design principles of Function Oriented Design. (7)

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- (b) How to verify that the detailed design is consistent with the system design? (8)

6. (a) Discuss the design concepts of Coupling and Cohesion in Object Oriented Systems. (8)
(b) What is the use of PDL in detailed design? (4)

SECTION - D

7. (a) Discuss various categories of metrics. (4)
(b) Discuss various configuration management activities. What is the role of change control process? (8)
8. (a) Discuss various categories of Software Maintenance. (4)
(b) Discuss various Object Oriented Metrics in detail. (8)

SECTION - E

9. (a) Differentiate between validation and verification.
(b) Name the phases of unified process.
(c) Differentiate between program and software.
(d) Differentiate between measures, metrics and measurement.
(e) Give an example of a structure chart.
(f) What is Quick-fix model of maintenance? (2×6=12)