

- 0 DEC 2016

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MCA 3rd Semester Examination

Software Engineering (NS)

- 0 DEC 2016

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 do you mean by the term software engineering? Describe the role of management in software development process. (6)
- (b) Explain the various components of System Requirement Specifications. (6)
2. (a) Explain all the phases of water fall model with the help of diagram. (6)
- (b) Explain all the phases of incremental process model with the help of diagram. (6)

SECTION - B

3. (a) Explain various components and role of software architecture. (6)
- (b) Discuss various steps involved in the deployment of software. (6)
4. (a) Discuss COCOMO model for cost estimation. (6)
- (b) Explain the categories of risk management. (6)

SECTION - C

5. (a) Explain various steps involved in structured design methodology. (6)
- (b) Discuss the difference between sequence and collaboration Diagram with suitable example. (6)
6. (a) What is dynamic and functional modeling? (6)
- (b) Explain the following terms with suitable example:
 - (i) Critical design review
 - (ii) Consistency checkers. (6)

SECTION - D

7. (a) Explain various levels of reverse engineering. (6)
- (b) What is maintenance process? What are various models for maintenance? (6)
8. What is software metrics? Explain various software metrics in detail. (12)

SECTION - E

9. Explain following terms:
 - (a) Software Quality Assurance.
 - (b) Class Diagram.
 - (c) COCOMO-II.
 - (d) Feasibility Study.
 - (e) Maintenance cost.
 - (f) Requirement Elicitation. (2×6=12)