

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
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M. Tech 1st Semester Examination
Software Engineering (NS)
CSE1-512/MT-102

Time : 3 Hours

Max. Marks : 100

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, by selecting atleast one question from each of sections A, B, C and D and Question 9 of Section E which is compulsory. All questions carry equal marks.

SECTION - A

1. Explain the water fall and incremental process models. (20)
2. Explain the procedure to select a software model in context of various parameters. (20)

SECTION - B

3. What is the difference between an architecture and design? Explain COCOMO. (20)
4. What do you mean by deployment view? Explain the guidelines to plan a project. (20)

SECTION - C

5. What are design principles? Explain OO design and analysis concept. (20)
6. What do you mean by dynamic modeling? Explain state modeling of classes. (20)

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SECTION - D

7. Explain any six metrics to check the performance of software. (20)
8. (a) Explain the concept of software maintenance and certification.
(b) Explain the concept of reverse engineering. (20)

SECTION - E

9. Answer the followings:
 - (a) Explain the utility of UML.
 - (b) How software is tested?
 - (c) Explain the working of PDL.
 - (d) How software re-engineering is different from reverse engineering?
 - (e) Explain the various data structure metrics. (5×4=20)