[Total No. of Questions - 9] [Total No. of Printed Pages - 2] (2123)

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B. Tech 5th Semester Examination Software Engineering (O.S.) IT (ID)-5001

Time: 3 Hours Max. Marks: 100

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

Note: Attempt five questions in all selecting one question from each of the section A, B, C and D. Section E is compulsory. All question carry equal marks.

SECTION - A

- 1 (a) Why spiral model is known as meta model?
 - (b) Elaborate the need for Software Engg. (20)
- 2. (a) What is Entity Relationship diagram? Explain in detail.
 - (b) Explain why software requirement analysis and specification is known as crucial step? (20)

SECTION - B

- 3. Explain in detail COCOMO model for all types of systems. (20)
- 4. (a) Specify all the application areas of software metrics.
 - (b) Draw and explain sophisticated information flow model. (20)

SECTION - C

5. Explain all types of Black-box testing techniques. (20)

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- 6. (a) Compare and contrast top down integration and bottom up integration.
 - (b) What are test cases? How they should be designed? (20)

SECTION - D

- 7. (a) Describe Iterative enhancement model for software maintenance.
 - (b) Describe all the categories of maintenance in detail. (20)
- 8. (a) Illustrate the cost impact of defects with one suitable example.
 - (b) List all software quality assurance activities. (20)

SECTION - E

- 9. (a) What is object diagram?
 - (b) Define structured analysis.
 - (c) What is DDL?
 - (d) What is risk projection?
 - (e) List two software metrics.
 - (f) Write a short note on smoke testing.
 - (g) Define testability.
 - (h) Why testing for real time system is difficult?
 - (i) What is the need of software maintenance?
 - (j) What is the use of software quality control? (10×2=20)