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

15156

B. Tech 5th Semester Examination Software Engineering (OS) 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, by selecting at least one question from Sections A, B, C and D. Question no. 9 of Section E is compulsory. All questions carry equal marks.

SECTION - A

- 1. (a) Write in detail the organisation of SRS. (10)
 - (b) Explain the working of prototype life cycle model. (10)
- What is data dictionary? Also, write its advantages and disadvantages.
 (10)
 - (b) What are the issues in design of large software? How they can be handled with software Engineering? (10)

SECTION - B

- (a) Give one example to illustrate how metric data can be analyzed for assessment. (10)
 - (b) Write all the typical software risks. (10)
- 4. (a) Draw and explain basic information flow model. (10)
 - (b) What is putnam resource allocation model? Also, write its usefulness. (10)

[P.T.O.]

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- 5. Explain all types of white box testing techniques. (20)
- Differentiate between verification and validation with one example.
 (10)
 - (b) What is cyclomatic complexity? Also, write its advantages and disadvantages. (10)

SECTION - D

- 7. (a) Describe quick fix model for software maintenance. (10)
 - (b) What are the problems during maintenance? How they can be solved? (10)
- 8. (a) Describe statistical software quality assurance in detail. (10)
 - (b) What is software reliability? List all the measures of reliability. (10)

SECTION - E

- 9. (a) Define structured analysis.
 - (b) Give brief overview of software development process.
 - (c) Write a short note on nature of SRS.
 - (d) What is risk identification?
 - (e) Where static multivariable model can be useful?
 - (f) List advantages of FP over LOC metric.
 - (g) What is regression testing?
 - (h) What is the role of test case design?
 - (i) Define ripple effect.
 - (j) What do you understand by defect amplification?

(10×2=20)