

Roll No.

Total No. of Questions : 13]

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Paper ID [A0321]

(Please fill this Paper ID in OMR Sheet)

B.Sc. (IT) (601/503) (S05) (O/N)(Sem. - 6th)

SOFTWARE ENGINEERING

Time : 03 Hours

Maximum Marks : 75

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Nine** questions from Section - B.

Section - A

Q1)

(15 × 2 = 30)

- a) What are the limitations of spiral model?
- b) What is project planning?
- c) What is meant by algebraic specification?
- d) What is staffing?
- e) Why coding is done?
- f) What is meant by reliability Metrics?
- g) What is domain analysis?
- h) What is the significance of repository maintenance?
- i) What is software reverse engineering?
- j) What is a statistical testing?
- k) What is meant by debugging?
- l) What is the use of linear process models?
- m) What is cohesion?
- n) Differentiate between system testing and unit testing.
- o) What is a statistical testing?

D - 322

P.T.O.

Section - B

(9 × 5 = 45)

- Q2)** What is the primary difference between design and analysis? Also explain the difference between bottom up design and top down design.
- Q3)** Discuss the waterfall model of system development.
- Q4)** What are the various symbols used for creating a DFDs?
- Q5)** What is meant by software maintenance? What are the various types of Software maintenance?
- Q6)** What is the use of having testing phase? Discuss the various types of testing?
- Q7)** What are the various design elements? Explain briefly.
- Q8)** What is the difference between structured programming and data oriented design?
- Q9)** When is cost estimation done? Discuss the COCOMO model along with the parameters defined in it.
- Q10)** What are software requirement specifications laid down by IEEE? Discuss.
- Q11)** What are the basic issues related to the reuse of a program?
- Q12)** What is meant by Software Reliability? What are the various reliability metrics?
- Q13)** Discuss the responsibilities of a Software Project Manager.

