

Roll No. ....

Total Pages : 02

BT-6/M-19

36155

SOFTWARE ENGINEERING

IT304N (Opt. I)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. Explain evolutionary and spiral model in detail. 15
2. (a) What is the relationship between project planning and project control ? 8  
(b) Write a short note on project size estimation metrics. 7

Unit II

3. (a) Explain functional modeling and information flow. 8  
(b) Write a short note on software requirement specification and review analysis. 7

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P.T.O

- Write short notes on the following :
- (a) Databases and data warehouse 8
- (b) Cohesion and coupling. 7

### Unit III

- 5. (a) What are the reasons behind to perform white box testing ? 8
- (b) Differentiate between software verification and validation. 7
- (a) What is user acceptance testing ? Explain different testings in user acceptance testing. Why is it necessary ? 8
- (b) What are the testing principle the software engineer must apply while performing the software testing ? 7

### Unit IV

- 7. What is the importance of software quality assurance ? Explain SQA activities. 15
- 8. Explain the following terms :
  - (a) Defect amplification and removal 8
  - (b) CASE. 7