

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

Write short notes on the following :

- | | |
|----------------------------------|---|
| (a) Databases and data warehouse | 8 |
| (b) Cohesion and coupling. | 7 |

Unit III

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|---|---|
| 5. (a) What are the reasons behind to perform white box testing ? | 8 |
| (b) Differentiate between software verification and validation. | 7 |
| 6. (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

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|---|----|
| 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 |