

Roll No.

Total Pages : 02

BT-6/M-14

8617

SOFTWARE ENGINEERING

IT-354

Time : Three Hours]

[Maximum Marks : 100

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

Unit I

1. Discuss the Spiral model of software development in detail giving its merits and demerits.
2. What is Risk ? Is it economical to do risk management ? What are risk management activities? Is it possible to prioritize the risk ?

Unit II

3. Write short notes on the following :
 - (a) Requirement Engineering
 - (b) Data Modeling
 - (c) Behavioral Modeling
 - (d) Control Flow Model.

4. Define term 'Modularization'. Why a system design with high cohesion and low coupling is desired ? Also discuss in brief various types of cohesions.

Unit III

5. Differentiate between software verification and validation. List various methods of verification and validation. Explain *may one* method of each in detail. <http://www.kuonline.in>
6. Discuss the following in detail :
 - (a) Black box testing Vs. White box testing
 - (b) Software Re-engineering.

Unit IV

7. Differentiate between quality control and quality assurance. What is meant by Software Quality Assurance (SQA) ? Discuss in detail the various activities performed by SQA.
8. What do you mean by Software Engineering Tools ? Give functional classification of CASE tools. How do they help in improving the quality of software product ?