

(3 Hours)

Total Marks:80

N.B. : (1) Question No. 1 is compulsory
(2) Attempt any three questions out of remaining five.

1. Answer all questions. 20
 - a) Explain White-Box testing with example.
 - b) Explain waterfall model with advantages and disadvantages
 - c) What is Requirement Elicitation? explain any two methods
 - d) Explain difference between validation and verification

2. (a) What is Agility ? Explain Extreme Programming (XP). In detail 10
 (b) Explain in detail Service-Oriented Software Engineering. 10

3. (a) Explain what is cyclomatic complexity also what are the different ways to calculate it with detailed example 10
 (b) Explain Risk and its types? Explain the steps involved in setting up or generating RMMM plan. 10

4. (a) Explain Size oriented Software Engineering Metrics. Find FP for E-commerce application with following data 10
 No. Of user inputs: 50
 No. Of user outputs: 30
 No. Of user inquiries: 35
 No. Of user files: 06
 No. Of user external interfaces:04
 Assume suitable Complexity adjustment factors and weighting factors
 (b) What is User interface design Process? Explain with one example 10

5. (a) Explain different types of software Maintenance? And also explain different steps for creating maintenance log. 10
 (b) What is FTR & Walk-through? Compare FTR & Walk-through in detail 10

6. Write short notes on (Any 2) 20
 - (a) Coupling and Cohesion Techniques
 - (b) System Testing
 - (c) Reverse Engineering
 - (d) Change Control in SCM
