T.E. (Computer) (Sem-VI) (CBSGS)

(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   10
           calculate it with detailed example
      (b) Explain Risk and its types? Explain the steps involved in setting up or   10
           generating RMMM plan.

4.   (a) Explain Size oriented Software Engineering Metrics. Find FP for   10
           E-commerce application with following data
           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   10
           steps for creating maintenance log.
      (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

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