T.E. Sem VI (CBGS)(Computer).   18/5/15
Software Engg

QP Code : 5065

(3 Hours)   [Total Marks :80

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

1. (a) Write suitable applications of different software models.   10
   (b) Compare Verification and Validation Testing.   10
   (c) Explain COCOMO Model.
   (d) Explain the different types of software Maintenance.

2. (a) What is Agile methodology? Explain it with the principles used and give   10
        example of any One such software model.
   (b) Explain Change Control and Version Control in SCM.   10

3. (a) Explain size oriented software engineering metrics.   10
        Find function points for an e-commerce application with following data,

Number of user Inputs	50
Number of user Outputs	40
Number of user Inquiries	35
Number of user Files	06
Number of External Interfaces	04

        Assume suitable complexity adjustment factors and weighting factors.

   (b) What Is Coupling and Cohesion? Explain different forms of it.   10

4. (a) What are the features of a good user Interface? Design and interface for   10
        Online Air Ticket Reservation System.
   (b) Explain different metrics used for maintaining Software Quality.   10

5. (a) What is SRS document? Build an SRS document for Online Student   10
        Feedback System.
   (b) What are Software Risks? Write a note on RMMM for delayed projects.   10

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6. (a) Compare Black box and White Box Testing. Find cyclomatic complexity   **10**
of following code

     IF A = 10 THEN
     IF B > C THEN
          A=B
          ELSE A= C
  END IF
  END IF
         PRINT A
         PRINT B
         PRINT C

(b) Explain software Reverse Engineering In detail.   **10**

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