[5561]-286

B. E. (Computer Engineering)
SOFTWARE DESIGN MODELING & TESTING
(2012 Pattern) (Semester - II) (410449)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

1) *Q.1 and Q.2 are compulosory. Solve Q.3 or Q.4, Q.5 or Q.6 and Q.7 or Q.8.*
2) *Assume suitable data if requied.*
3) *Figure to the right indicate full marks.*

Q1) a)   What is 4+1 Architecture View Model? Explain with suitable diagram.**[5]**

b)   Explain the Activity diagram for Passport Automation System?   **[5]**

Q2) a)   Explain the real time software architecture with suitable example?   **[5]**

b)   Explain the importance of Proxy & adapter in design pattern.   **[5]**

Q3) a)   Explain the different principles of Software Testing?   **[6]**

b)   Explain the generic steps in defect management process?   **[6]**

c)   What do you mean by Software Testing? Is complete testing possible?**[6]**

OR

Q4) a)   Distinguish verification and validation.   **[6]**

b)   Explain V & V Model with suitable diagram?   **[6]**

c)   Discuss the essential features of modern defect management tools? **[6]**

Q5) a)   Explain basis path testing. What are different types of basis path testing.**[8]**

b)   What is Black box testing? Explain Boundary value analysis?   **[8]**

OR

P.T.O.

Q6) a) Explain security Testing with suitable example? **[6]**

b) Write Short notes (Any Two) : **[8]**

    i)   Integration Testing

    ii)   Acceptance Testing

    iii) Equivalence Partitioning.

c) What is alpha & beta testing. **[2]**

Q7) a) Explain Automated Testing tool along with its feature & selection process? **[8]**

b) What are different components of monkey talk testing tool? **[8]**

OR

Q8) a) Write different component of GUI Testing? **[8]**

b) Explain different methods of mobile testing. **[8]**

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