[4958]-1102

T.E. (Information Technology)
SOFTWARE ENGINEERING
(2012 Course) (Semester - I)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions:

1)   Answer Q. 1 or Q. 2, Q. 3 or Q. 4, Q. 5 or Q. 6, Q. 7 or Q. 8, Q. 9 or Q. 10.

2)   Draw neat diagrams whenever necessary.

3)   Figures to the right side indicate full marks.

4)   Assume suitable data if necessary.

Q1) a)   Explain software Engineering process framework activities.   **[5]**

b)   What is Agile manifesto? Explain difference between traditional software development and agile development.   **[5]**

OR

Q2) a)   Explain spiral Model. Give an example of application using spiral model.   **[5]**

b)   Write short note on test driven development.   **[5]**

Q3) a)   Differentiate between exploratory testing and scripted testing.   **[5]**

b)   Explain tasks included in Requirement Engineering action.   **[5]**

OR

Q4) a)   What is generic process model? Explain its activities.   **[5]**

b)   For "Banking system", make your assumption about the scope of the system, identify use case and depict them in diagram.   **[5]**

Q5) a) Define software design and give quality guidelines and quality attributes.**[8]**

b) What are elements of Design model? What are the elements of architectural design? Explain in short design principles. **[8]**

OR

Q6) a) What is software architecture? Explain any 2 architectural styles of the system. **[8]**

b) Write short note on Architecture Patterns. **[8]**

Q7) a) Explain Seeheim model of human-computer dialog management. **[8]**

b) What are the steps for interface design? Explain with example of online student Registration. **[8]**

OR

Q8) a) Write short note on Shneiderman's 8 golden rules. **[8]**

b) What are the methods of collecting user requirements in user-centered design? **[8]**

Q9) a) What is software SCM repository? Explain the features of tool set supporting SCM repository. **[8]**

b) What is cleanroom software development? Explain cleanroom process model in detail. **[10]**

OR

*Q10)*a) Write short note on **[8]**

   i)   Technology evolution.

   ii) Collaborative development.

b) Explain SCM process in detail. **[10]**

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