

Total No. of Questions : 10]

SEAT No. :

**P2907**

**[4958]-1102**

**[Total No. of Pages : 2**

**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]**

**P.T.O.**

- 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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