

Total No. of Questions :12]

SEAT No. :

**P1672**

**[5058]-160**

[Total No. of Pages :3

**T.E. (Computer Engineering)**  
**SOFTWARE ENGINEERING**  
**(2008 Course) (Semester-II) (310253)**

*Time : 3 Hours]*

*[Max. Marks :100*

*Instructions to the candidates:*

- 1) Answers to the two sections should be written in separate answer books.*
- 2) Answer three questions from section - I and three questions from section -II.*
- 3) Neat diagrams must be drawn whenever necessary.*
- 4) Figures to the right side indicate full marks.*
- 5) Assume suitable data, if necessary.*

**SECTION-I**

- Q1)** a) Define software engineering. Compare the characteristics of software and hardware engineering. **[8]**
- b) Explain the activities and advantages of an evolutionary process model. **[6]**
- c) What is legacy software? **[4]**

OR

- Q2)** a) Describe the activities of incremental model. **[8]**
- b) Explain an agile process model. **[6]**
- c) What do you mean by formal method model? **[4]**
- Q3)** a) Explain the scenario based requirements modeling with use cases. **[8]**
- b) Create the DFDs up to level one for an online product ordering system. **[8]**

OR

**P.T.O.**

- Q4)** a) Explain the flow of a home security system with an activity diagram. [8]  
b) How do you model the behavior of an event driven system? Explain with an example. [8]

- Q5)** a) How the concepts of modularity and inheritance helps in the design of a software system. [8]  
b) Explain the user interface design rules. [8]

OR

- Q6)** a) Explain the user interface design process. [8]  
b) Explain any two architectural styles. [8]

### **SECTION-II**

- Q7)** a) Explain the integration testing approaches. [8]  
b) What is debugging? Explain the process of debugging. [10]

OR

- Q8)** a) Explain acceptance testing and performance testing. [8]  
b) What is unit testing? Describe the loop testing and control structure testing. [10]

- Q9)** a) Explain COCOMO II project estimation method. [8]  
b) Describe the factors influencing the project management? [8]

OR

- Q10)** a) Explain the quality factors of a software product. [8]  
b) How Function Point is calculated in FP estimation method? [8]

- Q11)** a) Describe the methods used in project tracking. [8]
- b) Explain the change management process. [8]

OR

- Q12)** a) Why the risk analysis is needed? Explain the risk analysis activities. [8]
- b) What is SCM? Explain SCM repository. [8]

*EEE*