

Total No. of Questions : 12]

SEAT No. :

P2897

[4958]-1090

[Total No. of Pages :2

**T.E.(Computer Engineering)  
SOFTWARE ENGINEERING**

**(2012 Pattern) (Semester-II) (End sem) (310252)**

*Time :2½Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Answer Q1 or Q2,Q3or Q4, Q5 or Q6 , Q 7 orQ 8, Q 9 or Q10 ,Q 11 or Q 12.*
- 2) *Figures to the right side indicate full marks.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Assume suitable data if necessary.*

**Q1)** What are the various umbrella activities applied throughout a software project? [7]

OR

**Q2)** Explain the concept of Software Evolution. Explain the merits and demerits of Agile process model. [7]

**Q3)** Explain class Based modeling with suitable example. [7]

OR

**Q4)** What are functional and non functional requirements of software. [7]

**Q5)** Explain in detail the need of SAAM (Software Architecture Analysis Method) and its steps. [6]

OR

**Q6)** Justify “The analysis and design process for user interfaces is iterative”. [6]

**Q7) a)** What are the main objective of software Testing and what are the principles of software testing? [9]

**b)** Differentiate between:- [8]

- i) Condition and loop Testing
- ii) Verification and Validation

OR

*P.T.O.*

- Q8)** a) What do you understand by Integration testing? Explain objectives of integration testing. [9]
- b) What is the difference between verification and validation? Explain with suitable example. [8]
- Q9)** a) Explain the earned value analysis in project scheduling. [8]
- b) What are the different categories of Risk. Explain Risk management process in detail. [9]

OR

- Q10)** a) What is software configuration management(SCM)? Explain the change control mechanism in SCM. [8]
- b) Explain COCOMO model for project cost estimation. [9]
- Q11)**a) What is the need for software Quality? Explain different McCall's quality factors. [8]
- b) What is significance of object constraint language (OCL)? Explain in detail. [8]

OR

- Q12)**a) Explain the working of service-oriented architecture. [8]
- b) What is Software Reliability? What are the factors affecting Software Reliability? [8]

