

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]

