

Total No. of Questions : 10]

SEAT No :

P2618

[5153]-594

[Total No. of Pages :2

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

Time : 2½ Hours]

[Max. Marks :70

Instructions to the candidates:

- 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) Write short note on Generic process model. [5]
b) What is software process assessment and approaches for software assessments? [5]

OR

- Q2)** a) What are the principles of Agile development? [5]
b) Explain Spiral model with the help of diagram. [5]

- Q3)** a) Explain in brief different SCRUM roles. [5]
b) What is Continuous integration? Explain benefits of continuous integration. [5]

OR

- Q4)** a) Explain Requirement Engineering Tasks. [5]
b) Draw and explain data flow diagram for Library Management System. [5]

- Q5)** a) Explain data centered and data flow architecture with neat diagrams. [8]
b) i) Write short note on Design Trade-offs. [8]
ii) Difference between structured analysis and object oriented analysis.

OR

- Q6)** a) What is software architecture? Compare horizontal and vertical partitioning. [8]
b) Explain architectural trade-off analysis method (A TAM). [8]

- Q7)** a) Define Usability. Explain different characteristics of Usability and ISO characteristics. [8]
b) Write short note on Interface Designs Principles. [8]

OR

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- Q8)** a) Explain the Seeheim model of human-computer dialog management?[8]
b) Explain mechanisms applied in user interface design for fulfilling Theo Mandel's three golden rules. [8]
- Q9)** a) Write the Black box, state-box and clear-box specification. [8]
b) Write short note on: [10]
i) Integrated Case Environment.
ii) Technology evolution.
- OR
- Q10)** a) Write short notes on Elements of a Configuration Management System.[8]
b) What is cleanroom software development? Explain major task conducted during cleanroom approach. [10]

