

Total No. of Questions : 10]

SEAT No. :

P1753

[Total No. of Pages : 2

[5460] - 583

T.E. (Computer Engineering)

Software Engineering and Project Management

(2015 Pattern)

Time : 2½ Hours]

[Max. Marks :70

Instructions to the candidates:

- 1) Attempt questions Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8 and Q.9 or Q.10.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data, if necessary.

**Q1)** a) Explain classic life cycle paradigm for software engineering and problems encountered when it is applied. [5]

b) What is the importance of Agile/XP methodology for project development. [5]

OR

**Q2)** a) What are the Practitioner's myths? Discuss the reality of these myths. [5]

b) Explain why waterfall model of the software engineering is not an accurate reflection of software development activities. [5]

**Q3)** a) Why Requirement Elicitation is difficult? What are the problems in requirement elicitation? [5]

b) Explain layered architecture style with neat diagrams. [5]

OR

**Q4)** a) What do you understand by refactoring? Give the importance of refactoring in improving the quality of software. [5]

b) Explain the user interface design issues. [5]

P.T.O.

- Q5)** a) Explain in detail software process and project metrics. [8]  
b) Explain COCOCMO Model for project estimation with suitable example. [8]

OR

- Q6)** a) What is a task network in project scheduling? Explain with an example. [8]  
b) What is the need for defining a software scope? What are the categories of software engineering resources? [8]

- Q7)** a) What is Risk identification? What are the different categories of risks? [6]  
b) What is software SCM repository? Explain the features of tool set supporting SCM repository. [6]  
c) Explain Software Reengineering Process model in detail. [6]

OR

- Q8)** a) Explain RMMM Plan in detail. [6]  
b) What is software configuration management? Explain the change control mechanism in software configuration management? [6]  
c) What is forward engineering? Compare with reverse engineering. [6]

- Q9)** a) Explain equivalence partitioning and boundary value analysis techniques in detail. [8]  
b) What do you understand by System Testing? What are the different kinds of system testing that are usually performed on large software testing. [8]

OR

- Q10)** a) Explain Defect Life Cycle in detail. [8]  
b) Differentiate between white box testing and black box testing. [4]  
c) What are the objectives of Black - Box Testing? [4]

