

Total No. of Questions : 10]

SEAT No. :

P3627

[5560]-583

[Total No. of Pages : 2

T.E. (Computer Engineering)
SOFTWARE ENGINEERING AND PROJECT MANAGEMENT
(2015 Pattern) (End - Semester - I) (310243)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Attempt questions Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, and Q9 or Q10.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data, if necessary.

- Q1)** a) Explain the importance of Requirement Engineering. [5]
b) What are the conditions in which Rapid Application Development Model is preferred? [5]

OR

- Q2)** a) How Agile/XP methodology will help project managers? [5]
b) Explain about various categories of non functional requirements & their importance. [5]

- Q3)** a) Abstraction & refinement are complementary concepts. Justify. [4]
b) Define terms 'Software' and 'Software Engineering'. "Software does not wear out". State whether this statement is true or false. Justify your answer. [6]

OR

- Q4)** a) How architecture can be mapped to components? What is meant by instantiation of the system? [5]
b) Explain in detail Call and Return Architectural Style. [5]

- Q5)** a) Explain the role of people project, product and process in project management. [8]
b) What is need of project estimation? What are the steps while estimation of software? [8]

OR

- Q6)** a) What is a task network in project scheduling? Explain with an example. [8]
b) Compare Lines of Code (LOC) and Function Point (FP) based estimation techniques with the suitable example. [8]

P.T.O.

- Q7)** a) What do you understand by Software Configuration Management (SCM)? Discuss the importance of SCM. [8]
b) Compare forward engineering with reverse engineering. [5]
c) How risk projection is carried out using risk table? [5]

OR

- Q8)** a) Prepare RMMM plan for late delivery of software product to the customer. [6]
b) How forward engineering is applied to Client Server Architectures? [6]
c) Explain Software Configuration Management (SCM) process. [6]
- Q9)** a) What is cyclomatic complexity? How is it determined for flow graph? Explain with an example. [8]
b) What is system testing? Explain any two system testing strategies. [8]

OR

- Q10)** a) With suitable example illustrate in which situations you will prefer boundary value analysis over equivalence partitioning. [8]
b) Write a short note on defect management. [4]
c) Differentiate between alpha and beta testing. [4]
