

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]

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