Total No. of Questions : 10]

SEAT No. :

P3627

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T.E. (Computer Engineering)

SOFTWARE ENGINEERINGAND 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]**

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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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