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T.E. (Computer Engineering)
SOFTWARE ENGINEERING
(2012 Pattern) (Semester - II)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates :

1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10*
2) *Neat diagram must be drawn whenever necessary.*
3) *Black figures to the right indicate full marks.*
4) *Assume suitable data if necessary.*

Q1) a) Discuss software process? Describe the framework and umbrella activities? **[5]**

b) Explain management and customer myths. Why a late project can not be placed back on schedule by merely adding people to the project teams? **[5]**

OR

Q2) a) Illustrate the characteristics of SRS? **[5]**

b) Describe CRC? Write the steps for identifying analysis classes using CRC modeling. **[5]**

Q3) a) For banking system ,make your assumptions about the scope of the system identify four use cases and depict them in diagram. **[5]**

b) Discuss refactoring? Give the importance of refactoring in improving quality of software. **[5]**

OR

Q4) a) Explain Elements of analysis model? **[5]**

b) Explain data centered layered architectures with neat diagrams. **[5]**

Q5) a) Usability of software product is tested during which type of testing? How is usability tested? **[5]**

b) Differentiate between alpha testing and beta testing? **[5]**

c) Describe system testing ? What are the different kinds of System testing that are usually performed on large software products? **[7]**

OR

Q6) a) Explain Boundary value analysis testing and orthogonal Array testing. **[5]**

b) Explain smok testing and regression testing? **[5]**

c) why the highly coupled module difficult to unit test? **[7]**

Q7) a) Justify process decomposition ? what are the work tasks for communication process using process decomposition? **[5]**

b) Explain metric for object oriented projects. **[5]**

c) Explain W5HH principles. **[7]**

OR

Q8) a) Differentiate between Measure and Metric? What are attributes of effective Software Metric? **[5]**

b) Describe Software configuration management ? Explain the change control mechanism in software configuration management. **[5]**

c) Assess Risk identification ? Name the different categories of risks? **[7]**

Q9) a) Describe Service-oriented architecture? **[5]**

b) Explain OCL? Where it is used? **[5]**

c) Discuss architectural patterns in details. **[6]**

OR

Q10)a) Describe client server computing? Explain **[5]**

b) Discuss architectural patterns in details. **[5]**

c) McCall's Quality Factors? **[6]**