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## Second Semester M.TEch. Degree Examination, June/July 2011 **Software Engineering**

Max. Marks:100

ſim	e: 3	hrs. Note: Answer any FIVE full questions.	
	a. b.	Explain in detail, the computer based software engineering and also explain the stages in a reuse oriented process.  What is software specification? Explain main phases in the requirements engineering.	us Marks)
2	a. b.	Identify six possible risks that can arise when systems are constructured using CO steps can a company take to reduce these risks?	08 Marks)
3	a. b.	Explain the need of software maintenance and its types. Give the keyfactors that d	IU WIAFKS)
4	a. b.	Explain why the program inspections are an effective technicians for discovering or program. What types of error are unlikely to be discovered through inspections? Give the distinct types of testing that are used in software process. Explain the process with a flow diagram.	(09 MBLR2)
5	а.	is important in critical system.	(IO Marks)
	b.		(10 Marks)
6	a. b.	Explain the fault tree for the software related hazards in the insulin delivery systemeat flow diagram.  Give the different types of measurement that can be made when assessing the respective. Also explain different steps involved in establishing a reliability specification.	liability of
	c.	. List types of systems that would resource system software safety cases.	(08 Marks)

Explain the architecture of client server system.

(08 Marks)

(06 Marks)

Write the CORBA. b. Explain the advantages and disadvantages of using a distributed approach to system C. (06 Marks) development.

Describe the different components of a real time operating systems. (06 Marks)

Explain the scenario of generic 'C' architecture for a monitoring and control system with a (06 Marks) diagram.

Explain the role of monitoring and control system used in a real - time systems, with an (08 Marks) example.