Total No. of Questions: 10] [Total No. of Printed Pages: 3

IT-605(N)

B. E. (Sixth Semester) EXAMINATION, June, 2011

(Information Technology Engg. Branch)

SOFTWARE ENGINEERING AND PROJECT MANAGEMENT

[IT - 605(N)]

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 35

Note: Attempt all questions. All questions carry equal marks.

- 1. (a) What is prime objective of software engineering?

 Define software engineering paradigm.
 - (b) Explain the following:

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- (i) Spiral model
- (ii) Waterfall model

Or

2. (a) Discuss the selection process parameters for a life cycle model.

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	(b)	Give the importance of software engineering. Define software process. State the importance features of a process.
3.	Writ	te short notes on the following: 10 each
	(a)	COCOMO estimation criteria
	(b)	Software metrics
		Or
4.	Writ	te short notes on the following: 10 each
	(a)	Software maintenance
	(b)	Task scheduling with an example.
5.	(a)	Differentiate between requirement and specification. 8
	(b)	Explain the ways and means for collecting the software requirements and how are they organized and represented.
		Or
6.	(a)	Explain the extensions of DFD for real time systems.
	(b)	Explain the software requirement analysis and modeling.
7.	(a)	Explain the testing procedures for boundary conditions.
	(b)	Describe verification and validation criterial for software.
		Or
8.	(a)	Describe unit testing and integration testing. How test plans are generated?
	(b)	Discuss software failures and faults? What are test coverage criteria?

9. What are the major uses of a requirement specification document? In what ways these uses affect the style and content of a requirement document?

Or

10. What are the purpose of software quality assurance? Why should the quality assurance organization be independent of development organization?