

Code No.: 5282

## FACULTY OF INFORMATICS B.E. 2/4 (IT) II Semester (Suppl.) Examination, January 2012 SOFTWARE ENGINEERING

Time: 3 Hours] [Max. Marks: 75]

Note: Answer all questions from Part A. Answer any five questions from Part B. PART - A (25 Marks) 1. Define the following terms: a) Engineering b) Software engineering. 3 2. Is software engineering an engineering discipline? Justify. 2 3. How is software architecture different from software design? Give atleast three differences. 3 4. List and explain in brief the three golden rules of ash-interface design. 3 5. List any five planning practices. 2 6. What is SE practice? 2 7. What is stress testing? 2 8. List and explain in brief any three ISO 9126 quality factors. 3 9. What is process assessment? Discuss its need. 2 10. Define system engineering and explain briefly. 3 PART-B (50 Marks) 11. Discuss the concept of the following software process models with the help of a neat sketch. a) Spiral model b) Scrum 10 12. a) Discuss the concept of CMMI in detail. 5 b) What is Team Software Process (TSP)? 5

(This paper contains 2 pages)

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13.		Discuss various tasks involved in regiments engineering.	5
	b)	Discuss the taxonomy of architectural styles.	5
14.	a)	What is boundary value analysis? Give an example.	5
	b)	Discuss the concept of basis path testing with the help of an example.	5
15.	1 0000	scuss the concept of following software methods:  Function-based matrix  Goal-question-metrics  Product metrics with an example.	10
16.	a)	List and explain various types of cohesion and coupling.	5
	b)	What is a component? Discuss any three basic design principles related to component-level design.	5
17.	a)	Discuss the concept of architecture trade-off analysis method.	5
	b)	Discuss the system engineering hierarchy with the help of a neat sketch.	5