III B. Tech II Semester Supplementary Examinations, November-2018 SOFTWARE ENGINEERING

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)

		2. Answering the question in Part-A is compulsory		
3. Answer any THREE Questions from Part-B				
		<u>PART-A</u>		
1.	a)	Distinguish between software process and project.	[4M]	
	b)	What are the characteristics of good SRS document?	[3M]	
	c)	List the principles of a software design.	[4M]	
	d)	Will exhaustive testing guarantee that the program is 100% correct? Explain.	[3M]	
	e)	List a few process and project metrics.	[4M]	
	f)	Define maintenance. What are the types of software maintenance?	[4M]	
	<u>PART-B</u>			
2.	a)	Explain why incremental development is the most effective approach for developing business software systems. Why is this model less appropriate for real-time systems engineering?	[8M]	
	b)	Explain briefly Software development lifecycle.	[8M]	
3.	a)	What is the goal of requirements analysis phase? Give reasons why the requirements analysis phase is a difficult one.	[8M]	
	b)	Identify and briefly describe four types of requirement that may be defined for a computer based system.	[8M]	
4.	a)	Explain about object oriented analysis and design principle.	[8M]	
	b)	What are the design principles? Explain in detail.	[8M]	
5.	a)	Explain integration testing process with an example.	[8M]	
	b)	What are the benefits of involving users in release testing at an early stage in the testing process? Are there disadvantages in user involvement?	[8M]	
6.	a)	Discuss about COCOMO II model for software estimation.	[8M]	
	b)	Discuss about the software metrics for small organizations.	[8M]	
7.	a)	What is reengineering? Explain in detail.	[8M]	
	b)	Explain why design metrics are, by themselves, an inadequate method of predicting design quality.	[8M]	
