Total No. o	of Questions	:	<b>8</b> ]	
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SEAT No.:	

P4890

[Total No. of Pages: 2

## [5155]-16

## M.E. (Computer Engineering) ADVANCED SOFTWARE ENGINEERING

		(2008 Pattern) (Semester - I) (Elective -	<b>I</b> )		
Time	e:3 F	Hours]	[Max. Marks: 100		
Insti		ons to the candidates:-			
	1)	Answers to the two sections should be written in separat	te answer books.		
	<i>2) 3)</i>	Answer any three questions from each section.  Neat diagrams must be drawn wherever necessary.			
	<i>4)</i>	Figures to the right indicate full marks.			
	5) Assume suitable data if necessary.				
SECTION - I					
Q1)	a)	Explain the system engineering process.	[8]		
	b)	State the dimensions of dependability and explain.	[8]		
Q2)	a)	Explain the spiral model for software development.	[8]		
	b)	Explain the data flow models with an example.	[8]		
Q3)	a)	Explain the control models for event driven systems.	[8]		
	b)	Explain the real time system modeling with a state ma	chine. [8]		
Q4)	Exp	lain the following. (Any three)	[18]		
	a)	Concurrent objects			
	b)	Transaction processing system			
	c)	UI design process			
	d)	Prototyping			

## **SECTION - II**

<b>Q</b> 5)	a)	Explain path testing method.	[8]
	b)	Explain in brief the COCOMO II models for estimation.	[8]
<b>Q6</b> )	a)	Explain change management process.	[8]
	b)	How agile process models adapt changes in software? Explain with process model.	n a [ <b>8]</b>
Q7)	a)	Explain the Risk analysis process.	[8]
	b)	How reliability for critical system is predicted? Explain.	[8]
<b>(20)</b>	г 1		01
<i>Q8)</i>	Expl	ain the following (Any three) [1	8]
	a)	Fault detection	
	b)	Process Improvement	
	c)	Black box testing	
	d)	Design pattern	

