<b>Total No. of Questions: 8</b>	3]	SEAT No. :
P281	[6003]-360	[Total No. of Pages : 2
T.E.	(Computer Engineering)/(A	A.I.D.S.)
SOFTWAR	RE MODELING AND ARCH	HITECTURES
(2019 Patt	ern) (Semester-II) (Flective	II) (310254 D)

	T.E. (Computer Engineering)/(T.T.E.S.)	*		
	SOFTWARE MODELING AND ARCHITECTURES			
(2019 Pattern) (Semester-II) (Elective II) (310254 D)				
Time : 2½		70		
	ons to the candidates:			
	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.			
	Neat diagrams must be drawn wherever necessary.			
	Figures to the right indicate full marks.			
<b>4</b> ) A	Assume suitable data, if necessary.			
<b>Q1</b> ) a)	What are the major components of interaction overview diagrams?	[6]		
b)	What is the types of a state machine diagram? Explain its types in deta			
		[6]		
c) (	Explain Fork and Join concept in Activity diagram with a suital			
	example	[6]		
	OR OP			
<b>Q2</b> ) a)	Explain the significance of timing diagram with a suitable example.	[6]		
b)	Draw state machine diagram for coffee vending machine.	[6]		
c)	Explain Communication diagram with example.	[6]		
	×6.	20		
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<b>Q3</b> ) a)	Explain the real time software architecture with a suitable example.	[8]		
b)	Explain the importance of Object oriented software architecture and	its		
	applicability in software development?	[9]		
	OR OR			
<b>Q4</b> ) a)	What is architecture pattern? What is significance of architecti	ng		
		[5]		
b)	What is the software architecture? What are the three different views	of		
an architecture? Explain the component of 4+1 architectural view model.				
		2]		

$Q_{3}$	a)	Define the importance of architecture structure and views.	[Օ]			
	b)	Explain the importance of Object oriented software architecture and	lits			
		applicability in software development.	[6]			
	c)	Explain the broker pattern for design of service oriented architecture	.[6]			
	,	OR				
20			F 63			
<b>Q6</b> )	a)	Explain the real time software architecture with a suitable example.	[6]			
	b)	Explain synchronous communication pattern in Client server architect	ture			
		with example?	[6]			
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	c)	Explain Location & Platform transparency in service orien				
		architecture	[6]			
<b>Q7</b> )	a)	What is singleton pattern? Explain one example scenario where you	will			
		singleton pattern to get applied?	[7]			
	b) \(\frac{\partial}{a}{a}\)	Draw the structure of observer pattern with suitable class diagram	ram			
		including subject and observer	[6]			
	c)	Explain the broker pattern for design of service oriented architecture	[4]			
		OR	20			
<b>Q</b> 8)	a)	What is Behavioral Pattern? In which situation you use the Behavioral	oral			
		pattern? What is observer Behavioral pattern? Explain obser	ver			
		Behavioral in detail with the applicability of singleton creational pattern.				
			[9]			
	b)	What are the different approaches of design patterns in softw	are			
		architecture?	[8]			
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		what are the different approaches of design patterns in softwarchitecture?				
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