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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fifth Semester B.Tech Degree Regular and Supplementary Examination December 2020

Course Code: IT301

Course Name: SOFTWARE ARCHITECTURE AND DESIGN PATTERNS

Max. Marks: 100 Duration: 3 Hours

model (5) (4)
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design (5)
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	d)	What are the limitations of Layered architectural style? Write examples for	(3)
		systems that use Layered architecture.	
		PART C	
7	a)	Answer any two full questions, each carries 20 marks. What is a design pattern? Discuss its elements.	(3)
,	b)	Discuss applicability, structure, participants and consequences of façade design	(7)
	U)	pattern.	(7)
	c)	Mention the pattern used to reduce communication complexity between	(10)
		multiple objects or classes. Explain its structure, applicability and merits and	
		demerits.	
8	a)	Write notes on prototype design pattern.	(10)
	b)	Explain chain of responsibility pattern with an example.	(5)
	c)	Explain the phases and steps of ATAM.	(5)
9	a)	Mention which design pattern will be helpful to add new functionality to an	(8)
		existing object? Give its structure, participants and consequences.	
	b)	Explain the structure and participants of observer design pattern.	(8)
	c)	Explain about composite class model.	(4)
