Code No: 127CF

b)

than behavioral patterns?

**R15** 

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, May/June - 2019 DESIGN PATTERNS

		DESIGN FAITERNS	
		(Common to CSE, IT)  3 Hours  Max. Marks: 75  This question paper contains two parts A and B.  Part A is compulsory which carries 25 marks. Answer all questions in Part A.  Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.	
		D.A. DOT	
	1.a) b) c) d)	What is a Design Pattern? Explain.  What are the three categories of design patterns?  List out some problems associated in designing a document editor.  What is the benefit of Factory pattern?  [2]  [3]	;)
	e)	What is the intent of the Adapter pattern? [2]	
And And	f) g) h) i) j)	Explain what is Composite pattern? [3] What are the consequences of mediator pattern? [2] What is the intent of the Observer pattern? [3] Write the purpose of behavioral patterns. [2] What are the five errors in using design patterns? [3]	
		PART-B	
Section Section	2.a) b)	What are three reasons for studying design patterns? What is the relationship between "consequence" and "forces" in a pattern?  OR  (50 Marks)  [5+5]	)
		What are the key elements in the description of a design pattern?  Explain how design patterns solve design problems.  [5+5]	
		Write about the functionality of operations that are accessed indirectly through use operations.  What are the implementation issues that are to be considered for builder pattern? [5+5]  OR	Γ.
		What are the benefits of Singleton pattern? Discuss the implementation issues of singleton pattern in detail. [10]	f
	b) '	What is the basic problem being solved by the Bridge pattern? Explain.  The Façade pattern and the Adapter pattern may seem similar. What is the essentia difference between the two? Explain.  OR	-
	-	What are two classic examples of decorators? How does the Decorator pattern help to decompose the problem?	Э
		Why are the Pridge and Decorator pottered many apprently electified as structural rather	

Why are the Bridge and Decorator patterns more correctly classified as structural rather

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•	8.a) b)	Discuss a What are Explain.	bout the structure the implementation	and participants on issues to be co	of Interpreter pat onsidered in Chair	tern. n of Responsibilit	
3,	9.a) b)	Explain in Describe t	detail about the he implementation	OR applicability and on issues of Memo	structure of Com ento pattern.	mand pattern.	[5+5]
	10.a) b)	Write abou What are th	it the benefits and he difference bety		Visitor pattern. pattern and the	Template Method	
8.K	11.a) b)	Describe in Write abou	detail about the the implementa	OR structure and part tion issues of Stat	ticipants of Strate te Behavioral pat	egy design pattern tern.	[5+5] [5+5]
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