## AG AG AG AG AG AG A

Cod	e No: 117CF	R13	
004	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSI	ITY HYDERABAD	
	B. Tech IV Year I Semester Examinations, November/D	December - 2017	
$A \sim$	↑ ↑ DESIGN PATTERNS\		Λ
A	DESIGN PATTERNS (Common to CSE, IT)		June
Tim	e: 3 Hours	Max. Marks: 75	,
Note		•	
	Part A is compulsory which carries 25 marks. Answer all que	stions in Part A. Part B	
	consists of 5 Units. Answer any one full question from eac	h unit. Each question	
	carries 10 marks and may have a, b, c as sub questions.		
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Z A New A			₹
1.a)	What is design pattern?	[2]	
b)	Explain design patterns in Smalltalk MVC.	[3] [2]	
c)	Draw the structure Factory Method.  Explain about recursive composition.	[4]	
d)	Write intent of Proxy pattern.	[2]	
e)	Write motivation of Wrapper pattern.		Λ
/ <del></del>	What are known uses of Iterator pattern?		/
h)	Write benefits and drawbacks of Mediator pattern.	[3]	2
i)	What is the intent of Strategy pattern?	[2]	
., j)	Describe patterns in software.	[3]	
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$A \setminus J$	ALI ALI ALI ALI	(50 Marks)	- Januari -
S. Mariel S.			
2.a)	What are some common causes of redesign? Explain.	rc . c)	
b)	How to use a design pattern? Explain in detail.	[5+5]	
2 )	OR		
3.a)	Discuss about toolkits and frameworks.	[545]	
$\wedge$ $\wedge$ $\wedge$ $\rangle$	Draw a diagram to describe design pattern relationships	- A A	$-\Delta$
-	Describe formatting in Lexi's design.		The second of
4.a) b)	What are consequences of Builder pattern? Explain Builder pattern	ern implementation [5±5]	
U)	OR	em imprementation.[5 · 5]	
5.a)	Explain about encapsulating the analysis in Lexi's design.		
b)	Write sample code of Prototype pattern.	[5+5]	
	•	a service a service	
$\land \qquad \overbrace{6.a}$	Explain the sample code of Flyweight pattern.	$\triangle$	$-\Delta$
(b)	Explain the sample code of Flyweight pattern.  Discuss about implementation issues of Decorator pattern.	[5+5]	/
,	OR		
7.a)	Write about motivation and consequences of Façade pattern.		
b)	Write sample code of Composite pattern.	[5+5]	
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## Explain about Mediator pattern. 8.a) [5+5] Explain about motivation of Mediator pattern. b) Briefly discuss about Memento pattern. Describe implementation of Command pattern. 9.a) Write some of the benefits and liabilities of the Visitor pattern. 10.a) Discuss about the pattern community. [5+5] b) OR Explain the following: 11. a) Discussion of behavioral patterns b) Template method pattern. --ooOoo--