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## Code No: 815BF

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, August - 2017 DESIGN PATTERNS

# Time: 3 Hours

Note: This question paper contains two parts A and B. Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

# PART - A

#### $5 \times 4$ Marks = 20

1.a)	What is meant by a design pattern? Discuss the significance.	[4]	
b)	Write brief notes on abstract factory pattern.	[4]	
c)	Discuss about implementation of composite pattern.	[4]	
d)	Discuss the usage of chain of responsibility pattern.	[4]	
e)	Explain the uses of visitor pattern.	[4]	
PART - B 5 × 8 Marks = 40			
2.	Discribe how the design patterns solve design problems.	[8]	
	OR	[-]	
3.	Discuss about design patterns in small talk MVC.	[8]	
	Children and Chi		
4.	Compare the factory method and prototype design patterns.	[8]	
	OR		
5.	Explain the structure, implementation and source code for the singleton patterns	. [8]	
6.	Explain the usage of façade pattern with a suitable example.	[8]	
	OR		
7.	Explain the structure and implementation of decorator and proxy patterns.	[8]	
8.	Compare the usage of Interpreter and Iterator patterns.	[8]	
	OR		
9.	Write the source code for mediator pattern. And explain its usage with a suitable	1	
		[8]	
10.	Write the implementation and source code for state and strategy patterns.	[8]	
11.	11. What we can expect from design patterns? Discuss about the history of design patterns.		
		[8]	

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#### Max. Marks: 60