R13

Code No: 117CF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, March - 2017

DESIGN PATTERNS (Common to CSE, IT)

Time: 3 Hours Max. Marks: 75

Note: 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.

Part- A (25 Marks)

1.a)				[2]			
b)	What do you mean by consequences? [3]						
c)	Write about document structure. [2]						
d)	Explain briefly about "Monoglyph". [3]						
e)		Describe the motivation for Bridge Pattern. [2]					
f)		What are all the Participants for Proxy Pattern? [3]					
g)	What are the Consequences of Chain of Responsibility Pattern. [2]						
h)	Write the Pattern name and Classification of Observer Pattern. [3]						
i)	What can we expect from a Design Pattern? [2]						
j)	Write about Applicability of State Pattern. [3]						
Part-B (50 Marks)							
	2.a) How to use design patterns? Explain in detail.						
					[5+5]		
	OR						
	3.	3. How a Design pattern solves the design problem? Illustrate with an example.[10]					
	4. Discuss the Motivation, Structure, Collaborations and Implementation of the following				the following		
		Patterns:	1) B		55 53		
		a) Abstract Factory	b) Prototype.		[5+5]		
	OR						
	5. Explain in detail about "supporting multiple window systems". [10]						
	6. Discuss the Intent, Applicability, Sample code, and Known uses of the following Patterns:						
		a) Adapter	b) Flyweight		[5+5]		
	7.	Discuss the pattern name, Applicability, Consequences and Related Patterns of the					
		following Patterns					
		a) Bridge	b) Proxy		[5+5]		
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8.	Explain in detail about Command pattern.		[10]
		OR	
9.	Describe in detail about Iterator Pattern.		[10]
10.	Explain the Motivation, Participants, Structure and Implementation of following Pattern		
	a) State	b) Template Method.	[5+5]
		OR	
11.	Discuss briefly		
	a) Visitor	b) Strategy.	[5+5]