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•	8 R	8R	8 R	¹ 3R	8R,	8R -	<u>8R</u>	
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8	Code No: 127CF JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY B. Tech IV Year I Semester Examinations, November/Dec DESIGN PATTERNS (Common to CSE, IT) Time: 3 Hours Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all question consists of 5 Units. Answer any one full question from each	ember - 2018 Max. Marks: 75 ons in Part A. Part B
·	carries 10 marks and may have a, b, c as sub questions. Part- A (25 Marks)	3P 8P :
	 1.a) Define Design Pattern. b) What are the uses of design pattern? c) What is the structure of document? d) Explain briefly about consequences of prototype. 	[2] [3] [2] [3]
88	e) Describe the structure of Adaptor Pattern. f) List the Consequences of Façade Pattern. g) What are all the Consequences of Interpreter Pattern? h) Write the Pattern name and Classification of Mediator Pattern. i) What is the internet of strategy pattern? j) Write about Applicability of Visitor Pattern.	[2] [3] [2] [3] [2] [3]
) (e)	Part-B (50 Marks)	
8R	2.a) Describe how a Design Pattern solves the Design Problems. b) Explain about Design Patterns in Smalltalk MVC. OR	3 \bigcirc [5+5] \bigcirc \bigcirc
	3.a) Describe about Catalog of Design Patterns.b) How to organize the Catalog of Design Pattern?	[5+5]
	4. Discuss the Motivation, Structure, Collaborations and Implementa	ation of the following
88	Patterns. a) Builder S Singleton OR	3 R [5+5] 8 R
	5.a) Can we use Abstract factory? Explain briefly.b) Explain about Multiple window system.	[6+4]
	6. Discuss the Pattern name, Applicability, Consequences and I	Related Patterns of the
88	following Patterns: a) Composite b) Decorator OR	3R [5+5]8R
	7. Discuss the Participants, Collaborations, Sample Code, and I following:a) Adaptorb) Façade	Related Patterns of the [10]
.8R	8R 8R 8R 8	3R 8R 8

9. 8.R	9. Describe i	n detail about Cor n detail about M	OR ediator Pattern.	S — ure and Impleme	[10] [10] [10] [and Implementation of following Patterns			
, 22	a) Strategy b) Visitor 11. Discuss in a) State	y	OR following Patters			+5] +5]8 R		
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