Code No: **R1641052 R16**

Set No. 1

IV B.Tech I Semester Supplementary Examinations, July/Aug - 2021 SOFTWARE ARCHITECTURE AND DESIGN PATTERNS

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any FOUR questions from Part-B *****

		PART-A(14 Marks)	
1.	a)	Draw the diagram of architecture business cycle.	[3]
	b)	State the participants of ATAM.	[2]
	c)	Draw the Structure of Abstract Factory creational pattern.	[3]
	d)	List out the participants of Bridge structural pattern.	[2]
	e)	Write the known uses and Related patterns of Interpreter behavioral pattern.	[2]
	f)	Write a note on document formatting.	[2]
		$\underline{PART} - \underline{B}(4x14 = 56 Marks)$	
2.	a)	Discuss about architecture patterns, reference models and reference architectures in detail	[7]
	b)	Justify why software architecture is important.	[7]
3.	a)	Explain the following terms of CBAM	
	1.	i)Architectural Strategies ii) Utility-Response Curves	[7]
	b)	Discuss in detail about future developments in software architecture.	[7]
4.	a)	Outline step by step approach of using a Design Pattern.	[7]
	b)	Summarize the Builder Creational Pattern in detail.	[7]
5.	a)	Describe about Consequences and Implementation of Adapter structural pattern.	[7]
	b)	Explain about motivation and structure of Composite structural pattern.	[7]
6.	a)	State the consequences and implementation of Chain of responsibility in	
		behavioral pattern?	[7]
	b)	Explain about the motivation and structure of Iterator behavioral pattern	[7]
7.	a)	Discuss in detail about a case study related to product line development.	[7]
	b)	Explain Multiple Look-and-Feel Standards in detail.	[7]