LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION - **COMPUTER SCIENCE**

SIXTH SEMESTER - NOVEMBER 2023

UCS 6501 - SOFTWARE ARCHITECTURE

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Date: 30-10-2023 Time: 01:00 PM - 04:00 PM	Dept. No.	Max. : 100 Marks
	Part –A	(10x2 = 20)
Answer all the questions:	Turt 11	(10/12 20)
1. What are the roles of Software Ar	rchitect?	
2. What is meant by Architectural st	yle? Mention any four commonly used Arch	itectural styles.
3. What is ADL?		
4. Write the purpose of Control Algo	orithm in Process Control architecture style.	
5. Define Shared Information System	ns.	
6. What is software Integration?		
7. What is Domain?		
8. What are Repositories?		
9. Define Generic sub-domains.		
10. What is called Bounded contexts?		
	Part – B	(5x8 = 40)
Answer all the questions:	1411 2	(eno 10)
11. a) Write short notes on the Reposi	itories architecture style	
11. a) write short notes on the reposi	(or)	
h) Explain briefly the Event-Bases	d, Implicit Invocation architectural style with	h neat diagram.
12. a) Explain briefly Process-Control	•	ii neat diagram.
12. a) Explain offerly 11000ss Control	(or)	
b) Discuss about the suitable Arch	nitectural style for the Instrumentation Softw	/are.
13. a) Discuss about the Database Inte	•	
- /	(or)	
b) Discuss about Architecture St	cructures for Shared Information Systems.	
	tems Architectural style with neat diagram.	
,	(or)	
b) Explain Life-cycle of a domain	ı object.	
15. a) How to make Implicit Concepts	s as Explicit in Domain Driven Design?	
	(or)	
b) Write short notes on deep mod	lels distillation.	

Part – C <u>Answer any two questions:</u>	(2x20 = 40)
16. a) Explain Process Control architecture style with neat diagram. (10)	
b) Explain the architectural styles based on Data abstraction and object-oriented organization. (10)	
17.a) Explain the basic requirements for Mobile robotic architecture 10)b) Discuss about the Domain-Driven design (10)	
18. a) Explain the Relationship between Bounded Contexts and Context Mapping for Strategic Design (10)b) Explain about pipes and filters architectural style with an example. (10)	
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