LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

SIXTH SEMESTER – **APRIL 2023**

UCS 6501 – SOFTWARE ARCHITECTURE

Date: 29-04-2023   Dept. No.   Max. : 100 Marks
Time: 09:00 AM - 12:00 NOON

PART-A

ANSWER ALL THE QUESTIONS   (10 x 2 = 20)

1. Define object.
2. Write the definition of interpreter.
3. What is meant by process control?
4. What is mobile robotics?
5. Define the term Repositories.
6. Define database integration.
7. Define modules.
8. What is meant by entities?
9. Define case domain.
10. What is generic domain?

PART-B

ANSWER ALL THE QUESTIONS   (5 x 8 =40)

11. Briefly explain the status of software architecture.
    (Or)
    Describe in detail about pipes and filters style.

12. Write a short note on heterogeneous architecture.
    (Or)
    Explain instrumentation software with an example.
13. Describe in detail about the integration in software development environments.
    (Or)
    Explain the architectural structures for shared information system.
14. Write a short note on continuous integration.
    (Or)
    Briefly explain about model-driven design.
15. Explain about the relationship between bounded contexts.
    (Or)
    Explain cohesive mechanism of Domain definition.

PART-C

ANSWER ANY TWO QUESTIONS   (2 x 20=40)

16. a) Explain about various architectural styles in detail. (10)
    b) Elaborate on the layered system with neat diagram. (10)
17. a) Discuss about the software paradigm for process control.(10)
    b) Discuss in detail about the user interface architectural style. (10).
18. a) Describe about the lifecycle of a domain object (10).
    b) Explain deep models distillation in detail (10).

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