



K. Sambath

Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test II – October 2024
V SEMESTER

Class : III UG
Major : Computer Applications

Time: 2 hours
Maximum Marks: 60

21BCAC22 Client/Server Computing

Course Outcomes:

1. Describe and synthesize the client/server concepts and different types of servers.
2. Analyze the operating system services required for client/server architecture.
3. Master the concepts of SQL database server and Data warehouse.
4. Familiarity with the concepts of transaction processing, functions of TP monitor and client/server interaction types.
5. Exposure to the concepts of distributed objects in client/server computing.

Part-A

6x1=6

Choose the correct answer

1. Which among the following property check whether after a transaction gets executed, it leaves the system in a correct state or it must be aborted?
a. Atomicity b. Consistency c. Isolation d. Durability
CO3K1
2. Which has a single initiating point and a single end point?
a. Base transaction b. Chained transaction c. Nested transaction d. Flat transaction
CO3K2
3. A subgroup of the data warehouse is termed as?
a. Data store b. Data center c. Data Mart d. Data warehouse
CO4K3
4. The command that allows transaction permanent in the database?
a. View b. Commit c. Rollback d. Retain
CO4K2
5. The 'glue' that lies between the client, server applications and ORB.
a. ORB and ORB interface b. CORBA IDL stubs and skeletons
c. Client and SQL d. Client and server
CO5K2
6. The middle tier in CORBA 3-tier Client/server architecture represents,
a. View Objects b. Legacy applications c. Server Objects d. Client Objects
CO5K2

Part- B

3x6=18

Answer ALL Questions

7. a. Discuss about the role of Data warehousing elements.
CO3K2
(or)
7. b. Discuss on Data warehouse hierarchies with suitable diagram.
CO3K1
8. a. Explain the importance and application of ACID properties in TP monitors.
CO4K3
(or)
8. b. Discuss the limitations of flat transaction.
CO4K1
9. a. Explain the role of component and the facilities provided by a Super component.
CO5K2
(or)
9. b. Write about the function of Workflow model.
CO5K2

Part-C

3x12=36

Answer ALL questions

10. a. Explain the mechanics of data replication in warehousing.
CO3K2
(or)
10. b. Describe in detail about the funnelling act of TP monitors and OS.
CO4K1
11. a. Explain TP-Lite, TP-Heavy. Compare TP-Lite vs TP- Heavy.
CO4K2
(or)
11. b. Write about TP monitors and Transaction management.
CO4K2
12. a. List the components of Groupware and explain in detail.
CO5K1
(or)
12. b. Describe in detail about the components, services and object architecture of CORBA.
CO5K1
