



Kambal

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 (now MoE)
Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, category I by UGC
Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – May 2025
VI Semester

Class : III UG
Major : Computer Science

Time : 3 Hours
Max. Marks: 100

21BCSC30 Client / Server Computing

Course Outcomes:

- CO1: Describe and synthesize the client server concepts and different types of servers
CO2: Analyze the operating system services required for client/server architecture
CO3: Master the concepts of SQL database server and data warehouse
CO4: Familiarity with the concept of transaction processing, functions of TP monitor and client/server interaction types
CO5: Exposure to the concepts of distributed objects in client / server computing

Part A

10 x 1 = 10

Choose the Correct Answer

1. The _____ gateway for the server-side object. CO1K1
a. skeleton b. stub
c. remote d. server
2. RMI uses stub and skeleton for communication with the _____ object. CO1K2
a. client b. remote
c. server d. any
3. Which of the following are automatically loaded and operates as a part of browser? CO2K2
a. Add-ons b. Plug-ins
c. Utilities d. Widgets
4. To access the services of the operating system, the interface is provided by the _____. CO2K2
a. Library b. System calls
c. Assembly instructions d. API
5. The Which one of the following is not a real time operating system? CO3K2
a. RTLinux b. VxWorks
c. QNX d. Palm OS
6. Identify the database used by SQL Server Agent for scheduling alerts and jobs, and recording operators? CO3K1
a. temp b. model
c. msdb d. master
7. Which is a subset of data warehouse focused on a specific functional area? CO4K2
a. Data mart b. Association rules
c. Flat files d. Database
8. Collections of operations that form a single logical unit of work are called _____. CO4K3
a. Views b. Networks
c. Units d. Transactions
9. Execution of transaction in isolation preserves the _____ of a database. CO5K2
a. Atomicity b. Consistency
c. Durability d. All of the mentioned
10. What is the primary function of an IORB in a client-server architecture? CO5K1
a. Data storage b. User interface presentation
c. Network communication management d. Application logic processing.

Part B
Answer All questions
Each answer should not exceed 400 words or two pages

5 x 6 = 30

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| 11.a. Explain the basic concepts of client / server techniques.
(or) | CO1K2 |
| 11.b. Discuss about the file server with example. | CO1K2 |
| 12.a. List out the operating system services.
(or) | CO2K1 |
| 12.b. Illustrate the process of peer-to-peer communication. | CO2K3 |
| 13.a. Describe the stored procedure with example.
(or) | CO3K2 |
| 13.b. Summarize the replication mechanism in data warehouse. | CO3K5 |
| 14.a. Outline the ACID properties with example.
(or) | CO4K4 |
| 14.b. Analyze about the transaction management with its benefits. | CO4K4 |
| 15.a. Enumerate the components of groupware objects.
(or) | CO5K3 |
| 15.b. Outline the CORBA components with example. | CO5K4 |

Part C
Answer All questions
Each answer should not exceed 800 words or four pages

5 x 12 = 60

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| 16.a. Explain the web server and fat server with example.
(or) | CO1K2 |
| 16.b. Distinguish the 3-Tier client/server architecture. | CO1K4 |
| 17.a. Illustrate the NOS middleware with example.
(or) | CO2K2 |
| 17.b. Analyse the remote procedure calls and its benefits. | CO2K4 |
| 18.a. Elaborate the data warehouse elements with its uses.
(or) | CO3K3 |
| 18.b. Summarize the warehouse hierarchies with neat diagram. | CO3K5 |
| 19.a. Outline the transactional RPCs with example.
(or) | CO4K4 |
| 19.b. Differentiate the TP Lite and TP Heavy with example. | CO4K3 |
| 20.a. Analyze the services of distributed objects in client server technology.
(or) | CO5K4 |
| 20.b. Discuss about the object management architecture with neat diagram. | CO5K4 |
