



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

**Bachelor's Degree Examination – January 2021**  
**V Semester**

**Class : III UG**

**Time : 3 Hours**

**Major : Computer Applications**

**Max. Marks: 100**

**18BCAC22 Client / Server Computing**

**Part A**

**10 x 1 = 10**

**Choose the Correct Answer**

- \_\_\_\_\_ refers to computing technologies in which the hardware and software components are distributed across a network.
  - Client and Server
  - User and System
  - User and file server
  - User and database server
- Which of the following is a characteristic of a file server?
  - Manages file operations and is shared on a network.
  - Manages file operations and is limited to one PC.
  - Acts as a fat client and is shared on a network.
  - Acts as a fat client and is limited to one PC.
- A typical \_\_\_\_\_ program creates some remote objects, makes references to these objects accessible, and waits for clients to invoke methods on these objects.
  - Server
  - Client
  - Thread
  - Concurrent
- The \_\_\_\_\_ layer which provides the interface that client and server application objects use to interact with each other.
  - Increasing
  - Count
  - Bit
  - Stub/skeleton
- \_\_\_\_\_ is a gateway for the server side object.
  - Skeleton
  - stub
  - remote
  - server
- Data warehouse architecture is based on.
  - DBMS
  - RDBMS
  - Sybase
  - SQL Server
- The execution of the functions on a single server or across servers on the network is called.
  - TP Monitor
  - TP- Lite
  - TP-Heavy
  - ORB
- In nested transactions, if the parent transaction issues the rollback then what about it's descendent?
  - .All are committed if they issue commit
  - Some are committed and some are roll backed
  - All are roll backed regardless of whether they issue any one
  - All are roll backed if they issue rollback
- A groupware is a.
  - Software
  - Hardware
  - Firmware
  - Network
- In CORBA 3-tier Client-Server architecture, the middle tier represents
  - View Objects
  - Server Objects
  - Legacy Applications
  - Client Objects

**Part B**

**5 x 6 = 30**

**Answer ALL questions**

**Each answer should not exceed 400 words or two pages**

- 11.a. Discuss the characteristics of Client/Server.  
(or)
- 11.b. Illustrate the Client/Server Building Blocks.
- 12.a. Analyze the usage of base services of an Operating System.  
(or)
- 12.b. Describe the working principle of NOS Middleware.
- 13.a. Examine the implementation of stored procedure.  
(or)
- 13.b. Illustrate the Data Warehouse Elements and Warehouse Hierarchies.
- 14.a. Discuss about ACID Properties with example.  
(or)
- 14.b. Differentiate TP Lite from TP Heavy.
- 15.a. Explain the components of Groupware.  
(or)
- 15.b. Evaluate the implementation of business objects.

**Part C**

**5 x 12 = 60**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

- 16.a. With neat sketch, explain the Database Servers, Transaction servers Web servers.  
(or)
- 16.b. Differentiate 2-tier architecture from 3-tier architecture.
- 17.a. Analyze the benefits of Extended services.  
(or)
- 17.b. Compare and contrast RPC and MOM.
- 18.a. Illustrate the function of SQL Database Servers.  
(or)
- 18.b. Elaborate on the architecture of Data Warehouse.
- 19.a. Describe the working procedure of TP Monitor and Transaction Management.  
(or)
- 19.b. Discuss about the different TP Monitor Client Server Interaction types.
- 20.a. With neat sketch, Describe the working procedure of CORBA.  
(or)
- 20.b. Explicate CORBA services in detail.

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