

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MSC (CS) - INTEGRATED- SEMESTER - III - EXAMINATION- SUMMER-2023**

**Subject Code: 1330303****Date: 30/06/2023****Subject Name: Client Server Architecture and Interface****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

- 1. Attempt all questions.**
- 2. Make Suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**
- 4. Use of simple calculators and non-programmable scientific calculators are permitted.**

- Q.1** (a) Give a brief history of the 1990's before client server computing. **03**
- (b) Explain OLTP. **04**
- (c) What is the architecture of Client Server Computing? **07**
- Q.2** (a) List out few benefits of Client Server Computing. **03**
- (b) Explain the role of the server in detail. **04**
- (c) Explain in detail Remote Procedure Call **07**
- OR**
- (c) Explain in detail Common Object Request Broker Architecture. **07**
- Q.3** (a) What is Downsizing? **03**
- (b) Explain Single System Image. **04**
- (c) What are some of the solutions to reduce Network Traffic? **07**
- OR**
- Q.3** (a) Explain Inter Process Communication. **03**
- (b) What is a Distributed Computing Environment? **04**
- (c) Explain a few steps for Centralized Management. **07**
- Q.4** (a) Define: NOS Environment **03**
- (b) What is the evolving role of servers in maintaining a balanced client-server environment? **04**
- (c) How does the RPC model differ from ordinary procedure calls, and what similarities can be identified between them? **07**
- OR**
- Q.4** (a) What is the ONC toolkit? **03**
- (b) Explain Asynchronous Transfer Mode. **04**
- (c) What are the different phases in the System Integration Life Cycle and how do they contribute to the overall process? **07**
- Q.5** (a) Explain cookies and session management. **03**
- (b) What are the fundamental differences between mainframe computing environments and client-server computing environments? **04**
- (c) What are the services provided by Management Information Systems? **07**

**OR**

- Q.5** (a) What are few protocol analyzers used by companies? **03**
- (b) Explain Point of Service Technology. **04**
- (c) How can LAN administrators handle the problem of the workstation of any user? **07**

-----