

Dr. Babasaheb Ambedkar Open University
Term End Examination January – 2026

Course	: BSCIT	Date	: 22/02/2026
Subject Code	: BSCIT-402	Time	: 03:00pm to 05:15pm
Subject Name	: Client Server Architecture and Interface	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Explain Client/Server computing in detail. Distinguish between Client/Server computing and Peer-to-Peer computing with suitable examples.
2. Explain the architecture of ASP.NET in detail with suitable diagram.
3. Explain state management techniques in ASP.NET.
4. Explain validation controls in ASP.NET.
5. Explain database connectivity in ASP.NET using ADO.NET architecture.

Section B

Answer the following (Attempt any four) (20)

1. What is an Object Request Broker (ORB)? Explain its role in Client/Server architecture.
2. Explain the methods of Client/Server system development. Discuss hardware and network requirements in detail.
3. Write a short note on Internet networking protocols and socket structure.
4. Write a short note on ListBox and GridView controls.
5. What is a Master Page? Explain its advantages.
6. Write a short note on Forms Authentication.

Section C

Part – A (Multiple Choice Questions) (10)

- 1 In Client/Server computing, which protocol is mainly used for communication?
A UDP B FTP
C SMTP D TCP
- 2 ORB is mainly associated with which technology?
A RPC B CORBA
C SQL D HTML
- 3 Which technology replaced DDE in Windows systems?
A OLE B TCP/IP
C RPC D CORBA
- 4 Which factor ensures continuous availability of a system?
A Portability B Compatibility
C Obtainability D Scalability
- 5 A socket is identified by:
A IP address only B Port number only
C IP address and port number D MAC address
- 6 Which component handles HTTP requests in ASP.NET?
A CLR B Web Server
C Database D ASP.NET Runtime

- 7 Which state management technique stores data on the client side?
A Session B View State
C Application D Cache
- 8 Server controls in ASP.NET run on:
A Server B Database
C Browser only D Client machine
- 9 Which control is used to display tabular data?
A Label B TextBox
C GridView D Button
- 10 Which authentication method uses login forms?
A Windows authentication B Forms authentication
C Passport authentication D Token authentication

Part – B (Do as Directed)

(10)

State whether the following statements are true or false

- 1 Client/Server computing follows a request–response model of communication.
- 2 Stored procedures help in reducing network traffic between client and server.
- 3 Message services are used only for printing and fax operations.
- 4 Authorization decides how web pages are designed.
- 5 Master Pages are used only for database connectivity.
- 6 ASP.NET standard controls provide built-in event handling.
- 7 Server controls generate HTML that is rendered by the browser.
- 8 Session state is shared among all users of an ASP.NET application.
- 9 ASP.NET architecture does not support separation of presentation and business logic.
- 10 ASP.NET supports rapid development of dynamic web applications.
