

**Dr. Babasaheb Ambedkar Open University**  
**Term End Examination July – 2026**

|              |                                            |            |                      |
|--------------|--------------------------------------------|------------|----------------------|
| Course       | : BSCIT                                    | Date       | : 22/07/2026         |
| Subject Code | : BSCIT-402                                | Time       | : 03:00pm to 05:15pm |
| Subject Name | : Client Server Architecture and Interface | Duration   | : 02.15 Hours        |
|              |                                            | Max. Marks | : 70                 |

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**Section A**

**Answer the following (Attempt any three) 30**

1. Explain the classification and features of different client types. Also describe various types of server categories such as Application, Proxy, and FTP servers.
2. Discuss the features of dynamic requests for application software development and the role of Computer-Aided Software Engineering tools in client/server system creation with example.
3. Explain the features of ASP.NET compared to classical ASP and detail the complete execution model of ASP.NET webpages.
4. Discuss the structure and implementation of Master Pages and Navigation Controls such as Menu, TreeView and SiteMapPath in ASP.NET applications.
5. Compare client/server computing with peer-to-peer computing and discuss information passing mechanisms like QueryString and Cookies in ASP.NET.

**Section B**

**Answer the following (Attempt any four) 20**

1. Define Stored Procedures and explain their advantages in a client/server database environment.
2. Explain the factors involved in hardware and network acquisition for client/server systems including PC-level processing units and data storage options.
3. Discuss the role of built-in ASP.NET directories with their purpose.
4. Explain the functionality and usage of Rich Controls such as Calendar, FileUpload and AdRotator in ASP.NET.
5. What is Dynamic Data Exchange (DDE) and Object Linking and Embedding (OLE)? State their roles in early and modern application communication.
6. Explain the lifecycle stages of an incident or network performance troubleshooting & emphasizing system administration and serviceability.

**Section C**

**Part – A (Multiple Choice Questions) 10**

1. Which type of client makes the set of data processing processes itself on the local device?  
A. Thin client                      B. Thick (Rich) client  
C. Diskless node                  D. Web client
2. Which architectural layer in a 3-Tier model is typically handled by middleware?  
A. Presentation Layer              B. Data Tier  
C. Application Layer               D. Storage Tier
3. Which protocol is a generalized standard protocol for communication between ORBs?  
A. GIOP                              B. HTTP  
C. FTP                                D. TCP
4. Which protocol stack layer is responsible for packetizing and transmitting data from one process to another?  
A. Physical Layer                  B. Transport Layer  
C. Data Link Layer                D. Application Layer
5. Which coding model in ASP.NET keeps the design and code in two separate files (e.g., .aspx and .aspx.cs)?  
A. Inline Coding Model            B. Code-Behind Model  
C. Script-Block Model             D. Single-File Model

6. Which built-in directory holds data stores or database files used by an ASP.NET website?
  - A. Bin
  - B. App\_Code
  - C. App\_Data
  - D. App\_Themes
7. Which state management mechanism stores data in a small file directly on the client (browser) machine?
  - A. Session Variable
  - B. Cookies
  - C. Application State
  - D. View State
8. Which event is the very first event raised in the ASP.NET Page Life Cycle?
  - A. Init
  - B. Load
  - C. PreInit
  - D. PreRender
9. What does a Label server control typically render as in the browser HTML output?
  - A. <input type="text">
  - B. <span>
  - C. <p>
  - D. <div>
10. Which hotspot type in an ImageMap control allows you to define a circular clickable region?
  - A. RectangleHotSpot
  - B. PolygonHotSpot
  - C. CircleHotSpot
  - D. SquareHotSpot

**Part - B (Do as Directed)**

**10**

1. A peer-to-peer network structure allows every computer (node) to share an equal share of jobs and resources. (True/False)
2. The \_\_\_\_\_ translates and transmits a request message from a client to a server.
3. Sockets utilize IP addresses of nodes and a network protocol to establish a risky channel of communication. (True/False)
4. The full form of CLR is \_\_\_\_\_.
5. Code render blocks in ASP.NET start with which symbols?
6. Which state shared among all users across the entire web application?
7. The full form of IDE is \_\_\_\_\_.
8. The \_\_\_\_\_ control enables users to transfer files from their local computer to the web server. (True/False)
9. The property used to check if a page request is a postback is called \_\_\_\_\_.
10. Authentication and Authorization control security features in ASP.NET websites. (True/False)

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