

B.C.A.PART—III (Semester-VI) Examination**CLIENT SERVER TECHNOLOGY****Paper—6ST2**

Time—Three Hours]

[Maximum Marks—60

- N.B. :—** (1) All questions are compulsory.
(2) Assume suitable data wherever necessary.
(3) Illustrate your answer with the help of neat sketches wherever necessary.

1. (a) What is downsizing ? Explain in detail. 6
(b) Explain various characteristics of client-server computing. 6

OR

2. (a) What is distributed computing ? Explain in detail. 6
(b) How microprocessor integration and client-server computing are co-related ? 6

3. (a) Write short notes on :-
(i) Object Orientation
(ii) Remote Procedure Call (RPC) 6
(b) Explain the various ways through which client-server can interact. 6

OR

4. (a) Explain application interaction protocol in detail. 6
(b) What are the various programming fundamentals for client-server developers ? 6
5. (a) Explain in brief Synchronization. 6
(b) Write short note on following Scheduling implementation :
(i) Round Robin
(ii) Fixed Real Time. 6

OR

6. (a) Write short note on Scheduler goals. 6
(b) Compare pre-emptive & non-preemptive Systems. 6
7. (a) What is memory manipulation ? Explain. 6
(b) Explain P and V Semaphores with examples. 6

OR

8. (a) Write short notes on :-
(i) Flat memory model
(ii) Page memory model
(iii) Segmented memory model. 6
(b) Explain semaphore implementation on different platforms. 6
9. (a) What are the three types of SQL commands ? Explain with example. 6
(b) Differentiate between DBMS and RDBMS. 6

OR

10. (a) What are ACID properties ? Explain. 6
(b) Write short notes on :-
(i) Network model
(ii) Relational model
(iii) File management model. 6