

AU-212

B.C.A. (Part-III) Semester-VI Examination
CLIENT SERVER TECHNOLOGY
Paper-6 ST 2

Time : Three Hours]

[Maximum Marks : 60

N.B. :- (1) All questions are compulsory.

(2) All questions carry equal marks.

(3) Assume suitable data wherever necessary.

1. (A) What is scalability ? Explain with the context of client server technology. 6
(B) What is heterogeneous computing ? Explain. 6

OR

2. (A) Explain the historical development of client server technology. 6
(B) What is distributed computing ? Explain. 6
3. (A) State and explain the different communication protocols used in client server technology. 6

(B) Explain the following :

- (i) Process
(ii) Threads. 6

OR

4. (A) Explain the interaction techniques of client-server architecture. 6
(B) Explain the programming fundamentals used for client-server architecture. 6
5. (A) What is scheduling ? Explain the preemptive scheduling in detail. 6
(B) What is synchronization ? Explain with example. 6

OR

6. (A) What is non-preemptive scheduling ? Explain with one non-preemptive system in detail. 6
(B) State and explain the need of scheduling. 6

7. (A) Explain the implementation of semaphore in UNIX. 6
(B) What is the procedure for memory allocation in Windows NT ? 6

OR

8. (A) What is the need of memory management ? Explain. 6
(B) How semaphore implemented in Windows NT ? 6
9. (A) Explain the different models of DBMS. 6
(B) Explain the following :
(i) SQL Window
(ii) Power builder. 6

OR

10. (A) State and explain the various tools provided by ORACLE. 6
(B) What is DBMS ? State and explain its various applications. 6