

--	--	--	--	--	--	--	--	--	--

Fifth Semester M.C.A Degree Examination, January/February 2005

Master of Computer Applications Client / Server Computing

Time: 3 hrs.]

[Max.Marks : 100

Note: Answer any *FIVE* full questions.

1. (a) What are the building blocks of client/server computing? Explain the different characteristics of client/server computing. (10 Marks)
 (b) Explain the different services provided by groupware servers, object application servers and web application servers. (10 Marks)
2. (a) With a neat diagram explain the working of 2-tier and 3-tier client/server architecture. Also bringout the differences between them. (10 Marks)
 (b) What is a stored procedure? With a diagram explain its working. What are the disadvantages of stored procedure? (10 Marks)
3. (a) What is remote boot service? How it works? Explain the different network services. (10 Marks)
 (b) With an example explain dynamic data exchange (DDE) and object linking and embedding (OLE). (10 Marks)
4. (a) With a neat diagram, explain network architecture. (10 Marks)
 (b) List and explain the different functions provided by the server in a network operating system environment. (10 Marks)
5. (a) Explain the difference between named pipes and anonymous pipes? (6 Marks)
 (b) What is a semaphore? How is it used in synchronisation? (4 Marks)
 (c) Explain any two wide area network technologies. (10 Marks)
6. (a) What is a remote procedure call (RPC)? With a neat diagram explain the architecture of RPC. (10 Marks)
 (b) Define a transaction. What is ACID properties? Distinguish between chained transaction and nested transaction. (10 Marks)
7. (a) With a neat diagram, explain CORBA architecture. (10 Marks)
 (b) Distinguish between COM and DCOM. (5 Marks)
 (c) Explain any five CORBA object services. (5 Marks)

8. (a) What are the benefits of distributed objects. (10 Marks)
- (b) What is the function of interface definition language (IDL) ? (5 Marks)
- (c) What is the need of unknown interface in COM ? (5 Marks)

** * **