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Fifth Semester M.C.A Degree Examination, January/February 2005**Master of Computer Applications****Distributed Objects**

Time: 3 hrs.]

[Max.Marks : 100

Note: Answer any *FIVE* full questions.

1. (a) Explain the IDL guidelines in writing IDL interfaces. (10 Marks)
(b) With a neat diagram, explain object management architecture. (10 Marks)
2. (a) Distinguish between static and dynamic invocation. (10 Marks)
(b) With a diagram, explain the structure of a client program. (10 Marks)
3. (a) Mention and explain the different management services. (10 Marks)
(b) How naming service is provided by CORBA? With an example, explain naming context hierarchy. (10 Marks)
4. (a) What do you mean by compound linking? (5 Marks)
(b) What is meta-object? What is the need of meta-object? (10 Marks)
(c) Distinguish between CORBA facilities versus CORBA services. (5 Marks)
5. (a) What is COM interface pointers? (5 Marks)
(b) Explain abstract bases as seen as a binary interface with vptr/vtbl layout. (8 Marks)
(c) What is dynamic link library (DLL)? Explain a method to make ABC class as a DLL. (7 Marks)
6. (a) Explain how optimizations are carried out in COM? Explain with a suitable example. (12 Marks)
(b) Explain any two COM activation primitives. (8 Marks)
7. (a) What is aggregation? How aggregation technique is used for composing a single identity from two or more binary components? (10 Marks)
(b) With a neat diagram, show the relationship between the stub manager, interface stubs and the object. (8 Marks)
(c) What are interface marshalers? (2 Marks)
8. (a) How security is provided in COM? (12 Marks)
(b) Briefly explain HBL CORBA facilities. (8 Marks)

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