



M.Sc. Fourth Semester Degree Examination

COMPUTER SCIENCE — Paper – 4.4 (b)

Component Technologies (Elective – II)

(Revised Syllabus w.e.f. 2009–10)

(New)

Time : 3 Hours]

[Max. Marks : 80

Instructions : 1) The Section - A is **compulsory**.

2) Answer any **five** questions from Section - B.

SECTION – A

1. Answer the following : **(10 × 2 = 20)**
- (a) Define client applet of CORBA application.
 - (b) Compare COM and DCOM.
 - (c) Define location transparency.
 - (d) What is the importance of IDL?
 - (e) Define Java Bean.
 - (f) What is the use of Query Interface Method?
 - (g) Mention the salient features of CORBA.
 - (h) What are the differences between events and calls?
 - (i) Define aggregation.
 - (j) How to define runtime polymorphism?

SECTION – B

2. (a) Discuss the client services of architecture. **(6)**
- (b) Describe COM and its characteristics. **(6)**
3. (a) Explain the components of ORB architecture. **(6)**
- (b) Discuss how CORBA related with Java, explain with suitable examples. **(6)**

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4. (a) What are the features of Beans and Enterprise Beans. (6)
- (b) What are the different types of factory components available? Explain them in brief. (6)
5. (a) What are the significant features of interfaces? Explain with suitable examples. (6)
- (b) Discuss the query interface types and properties in brief. (6)
6. (a) What are the services and facilities of COM? (6)
- (b) Discuss the salient features of Enterprise Java Bean. (6)
7. (a) With illustrations, explain any five important features of IDL. (6)
- (b) Discuss the principles of static and dynamic method invocation. (6)
8. Write notes on the following : (3 × 4 = 12)
- (a) Marshalling
- (b) Life cycle management
- (c) DCOM