Q1. Attempt any **FOUR** questions   [20]
   A. What is meant by service in SOA? What are different types of services?
   B. How CORBA IDL is mapped to java format? Which files compiler generates?
   C. What are the drawbacks of XML DTD?
   D. What are the types of marshalling supported by COM?
   E. Create persistent bean class for Result where roll_no and total_ marks are persisted to the database.
   F. What is the need of IDispatch Interface in COM?

Q2. A. What is an IDL? Write CORBA IDL for an application, which takes marks in History and marks in Geography and returns average marks   [10]
   B. State and explain different Object Location Services in CORBA?   [10]

Q3. A. Describe stub, skeleton and interfaces used in RMI technology, CORBA and COM/DCOM technology   [10]
   B. Draw DCOM architecture and explain how DCOM works?   [10]

Q4. A. What are apartments in DCOM? Explain their type in detail.   [10]
   B. Draw and Explain .NET architecture.   [10]

Q5. A. What is ESB? Why ESB become the logical choice to implement SOA?   [10]
   B. What is RMI? Is it language independent?   [05]
   C. Define Socket? What are named pipes?   [05]

Q6. A. What are the types of Enterprise Beans? Explain Stateful Session beans and Stateless Session Beans   [10]
   B. Describe the steps in developing an application using EJB Framework.   [10]

Q7. A. Write XML schema for the following description:
A BOOK has following characteristics-- Title, no. of authors, pages, Price, Binding (can be of types- Paper or Hard), Edition, Publisher.   [10]
   B. Create sample XML document for the description of the BOOK stated above.
      Write ant two path queries on above document.   [05+05]