1. For CORBA, which one of the following is representation of server object on client?
   a) Client pointer
   b) **Client stub**
   c) Client interface
   d) Client language binding

2. Flat transactions allow partial rollback.
   a) True
   b) **False**

3. RPC paradigm is useful when application needs to perform synchronous communication.
   a) True
   b) False

4. Implementation of JDBC interfaces for a particular database is popularly known as
   a) Implementation Repository
   b) Interface repository
   c) JDBC Plugin
   d) **Driver**

5. LDAP is an enhanced version of X.500
   a) True
   b) False

6. Digital certificate is an example of a following security concept
   a) Authorization
   b) **Authentication**
   c) Audit trail
   d) Non-Repudiation

7. SSL protocol works at the following layer/level
   a) Application
   b) **Transport**
   c) Data link
   d) Physical

8. IIOP is an ASCII protocol
   a) True
   b) **False**
9. Which one of the following is **not** an advantage of using XML?
   a) Plain text
   b) Inline reusability
   c) **Object oriented nature**
   d) Can be easily processed

10. Distributed object does **not** require any kind of runtime environment to exist.
   a) True
   b) **False**

11. Which one of the following would make the OS feature “Takes care of VIP client first” possible?
   a) Semaphores
   b) Concurrency
   c) Inter-process communication
   d) **Task pre-emption**

12. “Serialized access to shared resources” is related to which one of the following?
   a) Atomicity
   b) Consistency
   c) **Isolation**
   d) Durability

13. All CORBA services that are part of CORBA standard are described in IDL
   a) **True**
   b) False

14. Which one of the following is **not** true for JDBC?
   a) It is platform independent
   b) **It is language independent**
   c) It is a trademark owned by Sun Microsystems
   d) It is a SQL CLI

15. Which one of the following is known as Java’s embedded SQL?
   a) JDBC
   b) **SQLJ**
   c) EJAVA
   d) JSQL
Answer the following questions (16-20) in brief. Each question carries two points.

16. Please provide an example each for the client/server characteristics location transparency and “Mix-and-match”.

17. List two benefits of using RMI/IIOP over using RMI by itself or IIOP by itself?

18. Why does an interface in RMI programming need to extend from “Remote”? 
19. Explain in brief the differences between DOM and SAX parsers?

20. Please provide two limitations of database programming using embedded SQL against CLI?