

4. Match the items in list I with the list II and select the correct answer using the codes given below. [K₁]

List I	List II
A. JNDI	i. Directory Services
B. LDAP	ii. Transaction Services
C. JMS	iii. Naming Services
D. JTS	iv. Messaging Services

- a) A-iv, B-iii, C-i, D-ii b) A-iii, B-i, C-iv, D-ii
c) A-iv, B-i, C-ii, D-iii d) A-ii, B-i, C-iv, D-iii
5. The IDL compiler generates _____ and _____. [K₄]
a) runnable code, stubs b) client, stubs
c) stubs, client d) stubs, skeleton
6. Which of the following is the format for deployment descriptor files? [K₁]
a) XML b) XSL
c) HTML d) Java
7. Assertion (A): To deploy and run a servlet, a web container must be used. [K₂]
Reason (R): The web container is responsible for managing the lifecycle of servlets, mapping a URL to a particular servlet and ensuring that the URL requester has the correct access rights.
a) Both A and R are individually true and R is the correct explanation of A. b) Both A and R are individually true but R is not the correct explanation of A.
c) A is true but R is false. d) A is false but R is true.
8. Which of the following has least visibility scope for Java bean in JSP? [K₂]
a) Page b) Session
c) Request d) Application
9. Which of the following is/are true for JSP technology? [K₁]
I. It is persistent.
II. Platform independent.
III. Browser executes the code.
a) Only (I) b) Only (II)
c) Both (I) and (II) d) Both (II) and (III)
10. Which of the following EJB type has no remote interfaces? [K₁]
a) Message-Driven Bean b) BMP Entity Bean

c) CMP Entity Bean

d) Session Bean

PART B (10 x 2 = 20 Marks)

11. What are the outcomes produced by the primary objective of an enterprise? [K₂]
12. Name any two key methods on the ResultSet class that can be used for scrolling around result sets along with their functionality. [K₁]
13. Differentiate between JRMP and IIOP. [K₂]
14. Specify any four GIOP message types in CORBA. [K₁]
15. What is a naming service? [K₁]
16. What is the principal idea of a trading service? [K₂]
17. Create a DTD document for a bookstore with book details. [K₆]
18. Design a script to declare a variable and a method in JSP. [K₆]
19. Define Java Bean. [K₁]
20. List out any for design patterns. [K₁]

PART C (6 x 5 = 30 Marks)

21. Explain component interface types with a neat diagram. [K₂]
22. Explain JDBC driver types with examples. [K₁]
23. Illustrate the basic CORBA development process steps to send a hello message to a client. [K₃]
24. Explain how JavaMail provides a way to interact with an email messaging system. [K₂]
25. Design a registration form using HTML form tags. [K₆]
26. Explain the use of enterprise application integration. [K₂]

PART D (4 x 10 = 40 Marks)

27. Design a JDBC program to connect to a bank database, to insert and to print the customer details. [K₆]
28. Create a Remote Method Invocation program to find the factorial of a given number. [K₆]

29. Explain the lifecycle of Java Servlet with an example of servlet program to display the students marklist. [K₃]

30. Compare the types of Enterprise Java beans and specify their functional roles. [K₄]
