MASTER OF COMPUTER APPLICATION
Fifth Semester
ADVANCED JAVA
(MCA - 24)

Duration: 3Hrs.   **Full Marks: 70**

Part-A (Objective) =20
Part-B (Descriptive) =50

(PART-B: Descriptive)

uration: 2 hrs. 40 mins.   **Marks: 50**

Answer any *four* from *Question no.* 2 to 8
Question no. 1 is compulsory.

1. a) How a web server creates the web page using JSP. Explain along with the
   suitable diagram.   (5)

   b) Explain use of JSP Directives in detail.   (5)

2. Describe the methods used by the browser to pass the information to web server.
   Enlist and explain the methods for reading form data parsing.   (6+4=10)

3. Define Cookies. Explain its features. Explain how a Servlet and JSP API perform
   the session management.   (2+2+6=10)

4. Define Servlet and enlist steps involved in working of Servlet. Describe Servlet
   Container and its main functions.   (5+5=10)

5. What is JDBC? Explain the steps involved in JDBC process and JDBC Architecture
   respectively.   (2+8=10)

6. What are the components of JDBC? Explain each in detail. Explain JDBC life cycle
   along with the suitable diagram.   (5+5=10)

7. What is JMS? Explain Queue Model and Topic Model along with the suitable
   diagram.   (2+8=10)

8. a) Explain Naming Services and Directory Services. (5)

   b) Define JNDI. Write the advantages of JNDI. (5)

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Duration: 20 minutes   **Marks – 20**

(PART A - Objective Type)

I. Tick the correct answer: **1×20=20**

1. jspInit() method of HttpJspPage class can be overridden.
   a) True   b) False

2. Which of the following is a server side technology?
   a) Html   b) JSP   c) JavaScript   d) CSS

3. Which of the following attributes are mandatory in <Jsp:Getproperty /> Tag?
   a) Name, Property   b) Type, Id
   c) Name, Type   d) Id, Property

4. Config is instance of which class?
   a) Javax. Servlet.Servletcontext   b) Javax. Servlet.Servletconfig
   c) Javax. Servlet.Context   d) Javax. Servlet.Application

5. Which of the following depicts correct order of phases in JSP Life Cycle?
   a) Compilation, Initialization, Execution, Cleanup
   b) Initialization, Compilation, Cleanup, Execution
   c) Initialization, Cleanup, Compilation, Execution
   d) Cleanup, Compilation, Initialization, Execution

6. When Doget() Method Of Servlet Gets Called?
   a) GET Request Results From A Normal Request For A URL.
   b) The Service() method checks the HTTP request type as GET and calls doGET() Method.
   c) Both of the above.
   d) None of the Above.

7. Which of the following method can be used to get the multiple values of a parameter like checkbox data?
   a) Request.Getparameter()   b) Request.Getparametervalues()
   c) Request.Getparameternames()   d) None of the above

8. Which of the following code is used to get cookies in servlet?
   a) Response.Getcookies()   b) Request.Getcookies()
   c) Cookies.Getcookies()   d) None of the above

9. Which of the following code can be used to set the content type for the body of the response?
    a) Request.Setcontenttype(Type)   b) Response.Setcontenttype(Type)
    c) Header.Setcontenttype(Type)   d) None of the above

10. Which of the following is true about JDBC Architecture?
    a) JDBC API layer provides the application-to-JDBC manager connection.
    b) JDBC driver API layer supports the JDBC manager-to-driver connection.
    c) Both of the above
    d) None of the above

11. Which of the following gives out the connection to the database and implements the protocol for transferring the query and result between client and database?
    a) Driver Manager   b) JDBC Driver
    c) Connection   d) Statement

12. The JDBC API provides the abstraction and the JDBC drivers provide the implementation.
    a) True   b) False

13. Prepared Statements are more secure because they use bind variables, which can prevent SQL injection attack.
    a) True   b) False

14. JMS is mainly used to send and receive message from one application to another.
    a) True   b) False

15. Abbreviate the term JMS?
    a) Java Message Service   b) Java Monitor Service
    c) Java Message Session   d) Java Monitor Session

16. Which session Bean maintain their state between client invocations but are not required maintaining their state across server crashes or shutdowns?
    a) Stateful Session Bean   b) Stateless Session Bean
    c) Singleton Session Bean   d) None of the above

17. Which EJB container must provide an implementation of Java Naming and Directory Interface (JNDI) API to Provide Naming Services for EJB clients and components?
    a) Transaction Support   b) Persistence Support
    c) Naming Support   d) All Mentioned Above

18. How does JDBC handle the data types of java and database?
    a) The JDBC Driver converts the java data type to the appropriate JDBC type before sending it to the database.
    b) It uses a default mapping for most data types.
    c) Both of the Above.
    d) None of the above.

19. EJB is a Specification for J2EE Server, not a product; Java Beans may be a graphical component in IDE.
    a) True   b) False

20. A session bean represents a multiple clients inside the application server.
a) True   b) False

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