

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

Duration: 3Hrs.

Full Marks: 70

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

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

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

1. a) What is JSP? Explain JSP Life Cycle. (5)
b) What are JSP Declarations and JSP Expressions? Explain along with the suitable syntax. (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. What is JNDI? What is its basic use? Enlist its advantages. (2+3+5=10)

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Duration: 20 minutes

Marks – 20

(PART A - Objective Type)

I. Tick (✓) the correct answer:

1×20=20

1. Can a JSP page process HTML FORM data?
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 is true about Execution phase in JSP life cycle?
a) Whenever a browser requests a JSP and the page has been loaded and initialized, the JSP engine invokes the _jspService() method in the JSP.
b) The _jspService() method of a JSP is invoked once per request and is responsible for generating the response for that request.
c) The _jspService() method of a JSP generates responses to all seven of the HTTP methods ie. GET, POST, DELETE etc.
d) All of the above.

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
