

Unit 1 Chapter 1

1) Which is the container that doesn't contain title bar and MenuBars but it can have other components like button, textfield etc?

- a. Window
- b. Frame
- c. Panel
- d. Container

2) Give the abbreviation of AWT?

- a. Applet Windowing Toolkit
- b. Abstract Windowing Toolkit
- c. Absolute Windowing Toolkit
- d. Abstract Window Table

3) In Graphics class which method is used to draw a rectangle with the specified width and height?

- a. public void drawRect(int x, int y, int width, int height)
- b. public abstract void fillRect(int x, int y, int width, int height)
- c. public abstract void drawLine(int x1, int y1, int x2, int y2)
- d. public abstract void drawOval(int x, int y, int width, int height)

4) Which object can be constructed to show any number of choices in the visible window?

- a. Labels
- b. Choice
- c. List
- d. Checkbox

5) Which is used to store data and partial results, as well as to perform dynamic linking, return values for methods, and dispatch exceptions?

- a. Window

- b. Panel
- c. Frame
- d. Container

6) Which method can set or change the text in a Label?

- a. setText()
- b. getText()
- c. All the above
- d. None of the above

7) Which is a component in AWT that can contain another components like buttons, textfields, labels etc.?

- a. Window
- b. Container
- c. Panel
- d. Frame

8) Which are passive controls that do not support any interaction with the user?

- a. Choice
- b. List
- c. Labels
- d. Checkbox

9) How many types of controls does AWT support?

- a. 7
- b. 6
- c. 5
- d. 8

10) Which method Drops all changes made since the previous commit/rollback?

- a. public void rollback()
- b. public void commit()
- c. public void close()
- d. public Statement createStatement()

11) Which methods returns a stream that simply provides the raw bytes from the database without any conversion?

- a. getCharacterStream

- b. getBinaryStream
- c. getAsciiStream
- d. getUnicodeStream

12) Which method is used to establish the connection with the specified url in a Driver Manager class?

- a. public static void registerDriver(Driver driver)
- b. public static void deregisterDriver(Driver driver)
- c. public static Connection getConnection(String url)
- d. public static Connection getConnection(String url,String userName,String password)

13. Which of the following are interface?

- 1. ServletContext 2. Servlet 3. GenericServlet 4. HttpServlet
- A. 1,2,3,4
- B. 1,2
- C. 1,3,4
- D. 1,4

14. In which folder we can put web.xml?

- A. class
- B. package
- C. WEB-INF
- D. Webapps

15. Where we can put jar file?

- A. classes
- B. library
- C. lib
- D. WEB-INF

16. Which life-cycle method make ready the servlet for garbage collection?

- A. init
- B. service
- C. system.gc

D. destroy

17 Which of these classes define the `getWriter()` method that returns an object of type `PrintWriter` ?

Select the one correct answer. ?

- A. `HttpServletRequest`
- B. `HttpServletResponse`
- C. `ServletConfig`
- D. `ServletContext`

18. Which method defined in the `HttpServletResponse` may be used to set the content type ?

- A. `setType()`
- B. `setContent()`
- C. `setContentType()`
- D. `setResponseContentType()`

UNIT I : Chapter 4 Servlet API and Lifecycle

19. What are the two main types of servlet ?

- A) General Servlet and HTTP Servlet
- B) Generic Servlet and HTML Servlet
- C) Generic Servlet and HTTP Servlet
- D) Gender Servlet and SMTP Servlet

20. Which is not life cycle method of Servlet ?

- A) `service ()`
- B) `delete ()`
- C) `init ()`
- D) `doPost ()`

21. Which protocol is used to interact with Web Client by Servlet?

- A) HTTP
- B) FTP
- C) HLTP
- D) SMTP

22. _____ interface helps container to initialize Servlet .

- A) ServletContext interface
- B) Servlet interface
- C) ServletConfig interface
- D) All of above

23. All information send from web client is available in _____ object .

- A) ServletRequest
- B) ServletResponse
- C) ServletOutputStream
- D) ServletContext

24. ----- method helps to sends request from servlet to another resource.

- A) response ()
- B) print ()
- C) include ()
- D) forward ()

25. Is Cookie name and value is sent by Servlet to web browser ?

- A) Yes
- B) No
- C) Can't say
- D) Yes & No

Enterprise Java MCQ

Non Blocking I/O

Chapter 5

26. Which version of Servlets introduced asynchronous request access for promoting Non-blocking I/O

- a. Servlet 3.0
- b. Servlet 3.1
- c. Servlet 4.0
- d. Servlet 4.1

27. Blocking operations that limit scalability of web operations include except

- a. Waiting for a resource to be free before creating a response
- b. Application might need to query a database before generating a response
- c. Application might need to request data from a remote web service.
- d. Providing asynchronous access to the thread as soon as it is free

28. Which Interface has to be used to ensure non-blocking I/O in an application

- a. Prepared and Callable statement interface
- b. Statement Interface
- c. ReadListener and WriteListener Interface
- d. Connection Interface

29. The import required to run non-blocking I/O is

- a. Javax.servlet.AsyncContext
- b. Java.sql
- c. Java.sql.connection
- d. Java.sql.statement

30. When the ReadListener Interface is implemented the following methods must be overridden except

- a. onDataAvailable()
- b. onAllDataRead()
- c. onError()
- d. Class.forName()

31. The status on a non-blocking read can be checked by calling

- a. ServletInputStream.isReady()
- b. ServletOutputStream()
- c. DoPost()
- d. DoGet()

32. The overridden onError method calls _____ to commit the response

- a. AsyncContext.complete()
- b. Exit()
- c. Return
- d. System.exit()

33. The Asynchronous Complete command has a corresponding _____ command to start it

- a. forName
- b. Request.startAsync()
- c. Revoke()
- d. Deny

34. To create the Server Path for the file to be read in non-blocking mode the following get methods are called except

- a. `getServerName()`
- b. `getServerPort()`
- c. `getContextPath()`
- d. `getConnection()`

35. The connection variable is set of type

- a. `HttpSession`
- b. `HttpServletRequest`
- c. `HttpURLConnection`
- d. `HttpServletResponse`

Advanced Java MCQ 2019-2020

Unit 1

36. Enterprise Java has the following containers

- a. Servlets and JSPs
- b. Gantt Chart
- c. Hibernate
- d. Struts

37. Which is the base class of Java

- a. `HttpServletRequest`
- b. `HttpServletResponse`
- c. `Object`
- d. `HttpSession`

38. Phases of Life-cycle of servlet

- a. Service;init;destroy
- b. Destroy;service;init
- c. Init;service;destroy
- d. GetPost;service;destroy

39. Which are the two parameters of HttpServlet?

- a. HttpRequest and HttpResponse
- b. GET and POST
- c. Init and service
- d. Attributes and Parameters

40. Enterprise Java is scalable means

- a. Runs on all hardware
- b. Error-free
- c. Secure
- d. Can be multiplied

41. JDBC stands for

- a. Jango data Collection
- b. Java Database Connectivity
- c. Joule Derby Connection
- d. Java Duty Connect

42. `Class.forName` is a
- Global variable
 - Static method
 - JDBC driver
 - Derby connector
43. This is not a statement in the `Statement` interface
- `Statement`
 - `PreparedStatement`
 - `MinskyStatement`
 - `CallableStatement`
44. The `Connection` interface has the following parameters:
- URL, username, password
 - Port number
 - Localhost
 - Forname
45. What is the function of `rs.next()` in a result set called `rs`?
- Linked list pointer
 - Iterate through the retrieved set of data
 - Remainder of an array
 - Rest space

46. The steps to connect a database are
- a. Select Driver , Create DB, Connect, execute command
 - b. Select Driver, execute command, Connect
 - c. Connect, select driver, execute command , create DB
 - d. Execute only

47. DML functions in SQL statements use the following command to complete their function:
- a. execute
 - b. executeQuery
 - c. executeUpdate
 - d. runQuery

Advanced Java

Chapter 6 (working with database)

48. Which JDBC driver Type(s) can be used in either applet or servlet code?
- A. Both Type 1 and Type 2
 - B. Both Type 1 and Type 3
 - C. Both Type 3 and Type 4**
 - D. Type 4 only

49. The method executes a simple query and returns a single Result Set object
- A. executeUpdate()
 - B. executeQuery()**
 - C. execute()
 - D. noexecute()

50. Which of the following type of JDBC driver is the fastest one?

- A - Type 1
- B - Type 2
- C - Type 3
- D - Type 4

51. Which of the following is used to call stored procedure?

- a) Statement
- b) PreparedStatement
- c) CallableStatement
- d) CalledStatement

52. Which of the following is used to limit the number of rows returned?

- a) **setMaxRows(int i)**
- b) setMinRows(int i)
- c) getMaxrows(int i)
- d) getMinRows(int i)

53. Which of the following is advantage of using JDBC connection pool?

- a) Slow performance
- b) Using more memory
- c) Using less memory
- d) **Better performance**

54. What is a DataSource in terms of JDBC.

- A. A DataSource is the basic service for managing a set of JDBC drivers
- B. A DataSource is the Java representation of a physical data source
- C. A DataSource is a registry point for JNDI-services
- D. A DataSource is a factory of connections to a physical data source**

55. Which method is used to perform DML statements in JDBC?

- A. execute()
- B. executeQuery()
- C. executeUpdate()**
- D. executeResult()

56. How can you execute a stored procedure in the database?

- A. Call method execute() on a CallableStatement object**
- B. Call method executeProcedure() on a Statement object
- C. Call method execute() on a StoredProcedure object
- D. Call method run() on a ProcedureCommand object

EJ MCQ Chapter 7, 8

57. Which object is used to forward the request processing from one servlet to another?

- a) ServletContext
- b) ServletConfig
- c) RequestDispatcher
- d) ResponceRedirect

58. Request dispatcher interface is defined in javax.servlet package.

- a) true
- b) false
- c) can't say
- d) true and false

59. _____ object contains request of client and transfer control to another web components.

- a) Cookies
- b) include
- c) Request dispatcher
- d) forward

60. Cookies make it easy for web servers to personalize information to fit specific needs and preferences when you visit a website.

- a) True
- b) False
- c) Can't say
- d) True and false

61. Cookies may also called as HTTP cookies or web cookie or internet cooki

- a) True
- b) False
- c) Can't say
- d) True and false

62. Persistent cookie does disapper after user exists a site.

- a) True
- b) False
- c) Can't say
- d) True and false

63. Which package is provided by Servlet API to work with cookies.

- a) javax.servlet
- b) javax.servletrequest
- c) javax.servletresponse
- d) javax.servlet.http.Cookie

64. Where are cookies placed in computer?

- a) Browser
- b) Drive
- c) List
- d) Folder

65. Session ids are stored in cookies?

- a. True
- b. False
- c. May be
- d. can't say

66. What is the maximum size of cookie?

- a) 4 bytes

- b) 4 mb
- c) 4 kb
- d) 40mb

67. which attribute is used to extend the lifetime of a cookie?

- a) Name
- b) MaxAge
- c) Path
- d) Value

Answer – b

68. Syntax for creating a cookie

- a) Cookies ck= new cookies(“ name” , “ value”);
- b) cookie ck = new cookies(“ name”);
- c) cookie ck= new cookie(“ name”);
- d) Cookie ck = new Cookie(“ name”, “ value”):

69. If you set the expiration time to ____ then cookie will be removed from browser.

- a) 1
- b) -1
- c) 0
- d) 2

70. How can you set cookie visibility scope to local storage?

- a) %
- b) *

- c) +
- d) /

CHAPTER

JAVA SERVER PAGES

71. Which tag is used to execute java source code in JSP?
- a) Scripting Elements
 - b) Directive Elements
 - c) Standard Action Elements
 - d) All of the above.
72. What is the syntax of scriptlet tag?
- a) `<%-- --%>`
 - b) `<% %>`
 - c) `<%= %>`
 - d) `<%! %>`
73. What is difference between `<%-- comment --%>` and `<!-- comment -->`?
- a) `<%-- comment --%>` is JSP comment. `<!-- comment -->` is an HTML comment.
 - b) `<%-- comment --%>` is ignored by JSP container.
 - c) `<!-- comment -->` is ignored by browser.
 - d) All of the above.
74. A JSP page consists of which tags?
- a) HTML tags.

- b) JSP tags.
- c) Both (a) and (b).
- d) None of the above

75. Which page directive should be used in JSP to generate a PDF page?

- a. contentType
- b. generatePdf
- c. typePDF
- d. contentPDF

76. Which of the following do not supports JSP directly?

- a. Weblogic Server
- b. WebSphere Server
- c. Tomcat Server
- d. Apache HTTP Server

77. How many jsp implicit objects are there and these objects are created by the web container that are available to all the jsp pages?

- a. 8
- b. 9
- c. 10
- d. 7

78. The difference between Servlets and JSP is the

- a. Translation
- b. compilation
- c. syntax
- d. Both A and B

79. Which of the following are the valid scopes in JSP?

- a. request, page, session, application
- b. request, page, session, global
- c. response, page, session, application
- d. request, page, context, application

80. Which of the following is not a jsp directive?

- a. include
- b. page
- c. scriptlet
- d. useBean

81. Which one is the correct order of phases in JSP life cycle?

- a. Initialization, Cleanup, Compilation, Execution
- b. Initialization, Compilation, Cleanup, Execution
- c. Compilation, Initialization, Execution, Cleanup
- d. Cleanup, Compilation, Initialization, Execution

82. Which tag is used to declare variables as well as methods?

- a) JSP Scripting
- b) JSP Directive
- c) JSP Standard Action
- d) JSP Declaration

83. Which tag should be used to pass information from JSP to included JSP?

- a. Using <%jsp:page> tag
- b. Using <%jsp:param> tag
- c. Using <%jsp:import> tag
- d. Using <%jsp:useBean> tag

84. JSTL catch tag is used to handle exception and forward the page to the error page.

- a. True
- b. False
- d) Can't say
- e) True and false

85. What will be output of the JSP code? `${101 % 10}`

- a. 1
- b. 10
- c. 1001
- d. 101%10

86. Which method of the Component class is used to set the position and size of a component in JSP?

- a. setPosition()
- b. setBounds()
- c. SetSizePosition()
- d. setSize()

87. Which is not a directive?

- a) include
- b) page
- c) export
- d) taglib

88. Which attribute defines the MIME type of the HTTP response?

- a) ContentType
- b) language
- c) PageEncoding
- d) isELIgnored

89. What is the use of errorPage Attribute in JSP Page directive?

- a) Is used to declare that the current page is the error page.
- b) If exception occurs in the current page, it will be redirected to the error page.
- c) Both (a) and (b) are true.

d) Neither (a) nor (b).

90. How can one JSP Communicate with Java file?

a) `<%@ page extends="....." %>`

b) `<%@ page import="....." %>`

c) `<%@ page info="....." %>`

d) `<% @ page isELIgnored="....." %>`

CHAPTER 15

INTRODUCTION TO JSP

91. When a container loads a JSP it invokes which method before servicing any requests?

a) `init()` method.

b) `initialization()` method.

c) `jspInit()` method.

d) `initial()` method.

92. After JSP page is initialized which method is invoked ?

a) `service()` method.

b) `_jspService()` method.

c) `_JspService()` method.

d) `jspservice()` method.

CHAPTER 16

Java Server Pages Tag Library(JSTL)

93. A JSP file uses a tag as `<myTaglib:myTag>` The myTag element here should be defined in the tag library descriptor file in the tag element using which element. Select the one correct answer.

- a) tagname
- b) name
- c) tag
- d) prefix

94. Which of the type of Java conditional statement is the `<c:choose>` tag similar to?

- a) If
- b) Switch
- c) When
- d) for

95. What is the default value of the type attribute for the `<fmt:formatNumber>` and `<fmt:parseNumber>` actions?

- a) Currency
- b) Percentage
- c) number
- d) dollar

96. Prefix of function tag library begins with?

- a) func
- b) f
- c) fun
- d)fn

97. How to query and update in database transaction in JSTL?

- a) <Sql:transact>
- b)<Sql:query>
- c)<sql:update>
- d)<sql:transaction>

98. Which of these represent the correct path for the core JSTL library in JSTL version 1.1? Select the one correct answer.

- a) <http://java.sun.com/jsp/jstl/core>
- b) <http://java.sun.com/jsp/core>
- c) <http://java.sun.com/core>
- d) <http://java.sun.com/jsp/jstl1.1/core>

99. Assuming the appropriate taglib directives, which is not valid examples of custom tag usage?

- a) <foo:bar>
- b)<my:tag></my:tag>
- c) <mytag value="x" />

d) `<c:out value="x" />`

100. Which JSTL provide supports for string manipulation?

- a)JSTL String
- b)JSTL function
- c)JSTL XML
- d)JSTL formatting

Chapter No.17 Introduction to Enterprise JavaBeans

101. Enterprise Bean Architecture consists of-

- a. Enterprise Bean Server, Enterprise Bean, Enterprise Bean Clients, and Other services like JNDI and JTS
- b. Enterprise Bean Server, Enterprise Bean Containers, Enterprise Bean, Enterprise Bean Clients
- c. Enterprise Bean Server, Enterprise Bean Containers, Enterprise Bean, Enterprise Bean Clients, and Other services like JNDI and JTS
- d. Enterprise Bean Server, Enterprise Bean, Enterprise Bean Clients, and Other services like JNDI and JTS

102. _____ is responsible for managing the active state for object, for each enterprise bean.

- a. Container
- b. Server
- c. Client
- d. JNDI

103. EJB Architecture defines __ types of Enterprise Beans.

- a. 4
- b. 2
- c. 3
- d. 5

104. _____ bean can implement web service, but other types of Enterprise Beans cannot.
- Stateful
 - Singleton
 - MessageDriven
 - Stateless
105. Only a single client can use _____ session bean at a time.
- Stateful
 - Singleton
 - MessageDriven
 - Stateless
106. _____ session beans are instantiated once per application and exist for the lifecycle of the application.
- Stateful
 - Singleton
 - MessageDriven
 - Stateless
107. What is considered as the simplest way of obtaining an Enterprise Bean reference?
- JNDI lookup
 - JAX-RS
 - Dependency Injection
 - JSF
108. Message driven beans are relatively similar to-
- Stateful Beans
 - Singleton Beans
 - MessageDriven
 - Stateless Beans

Chapter No.18 Working with Session Beans

109. Stateless session beans should not be used if the task that is needed to be performed involves more than a single step.
- True
 - False
 - Can't say
 - True and false
110. Stateful session beans cannot be pooled.
- True
 - False
 - Can't say
 - True and false
111. Singleton session bean was introduced to share _____
- Session-wide data
 - Page-wide data
 - Application-wide data
 - Request-wide data
112. It is difficult to decide the type of access Enterprise beans should have but, ____ gives more flexibility.
- Local
 - Remote
113. Which version of EJB introduced concept of No interfaces for Session Beans?
- EJB 1.0
 - EJB 2.1
 - EJB 3.1
 - EJB 3.2

114. Which annotation is used to obtain reference to No-interface view or an enterprise bean through dependency injection?
- a. @Local
 - b. @EJB
 - c. @Remote
 - d. Any of above
115. Stateful session passes through ___ stages during its lifetime.
- a. 4
 - b. 1
 - c. 2
 - d. 3
116. WAR modules that contain enterprise module require an ejb-jar.xml deployment descriptor.
- a. True
 - b. False
 - c. Can't say
 - d. True and false
117. The container invokes the _____ methods on newly constructed bean instances after completion of all dependency injection and before first business method is invoked on the enterprise bean.
- a. @PostConstruct
 - b. @PreDestroy
 - c. @PreActivate
 - d. @PostPassivate

EJMCQ Ch 19

Working with Message Driven

118. Message driven bean functions as an asynchronous
- a. **message consumer**
 - b. message producer
 - c. Both
 - d. none of above
119. Message Driven Bean has ___ states in lifecycle
- a. 1
 - b. **2**
 - c. 3
 - d. 4
120. The bean class need not implement javax.ejb.MessageDrivenBean interface
- a. **True**
 - b. False
 - c. Can't say
 - d. True and false