



## BRAINWARE UNIVERSITY

**Term End Examination 2021 - 22**  
**Programme – Bachelor of Computer Applications**  
**Course Name – Advanced Java**  
**Course Code - BCA503A**  
**( Semester V )**

**Time : 1 Hr.25 Min.**

**Full Marks : 70**

[The figure in the margin indicates full marks.]

### Group-A

(Multiple Choice Type Question)

1 x 70=70

*Choose the correct alternative from the following :*

- (1) Which of the following is generated when the source code is successfully compiled?
  - a) Output
  - b) Error
  - c) Bytecode
  - d) None of these
- (2) The Inheritance keyword is
  - a) implement
  - b) extend
  - c) extends
  - d) None of these
- (3) Which is true?
  - a) "X extends Y" is correct if and only if X is a class and Y is an interface.
  - b) "X extends Y" is correct if and only if X is a n interface and Y is a class
  - c) "X extends Y" is correct if X and Y are either both classes or both interface.
  - d) "X extends Y" is correct for all combinations of X and Y being classes and/or interfaces
- (4) Which of these return type of hasNext() method of an iterator?
  - a) Integer
  - b) Double
  - c) Boolean
  - d) Collections Object
- (5) In which area of memory, the system stores parameters and local variables whenever a method is invoked?
  - a) Stack
  - b) Help
  - c) Array
  - d) None of these
- (6) Super keyword in Java is used for?
  - a) To refer to immediate child class of a class
  - b) To refer to immediate parent class of a class
  - c) To refer to current class object.
  - d) To refer to static member of parent class
- (7) We cannot instantiate
  - a) a class
  - b) an interface

- c) an abstract class and an interface  
 (8) PreparedStatement object is similar to  
 a) Connection Object  
 c) ResultSet Object  
 (9) Which of the following is method of JDBC batch process?  
 a) setBatch()  
 c) removeBatch()  
 (10) Which of these interface handle sequences?  
 a) Set  
 c) Map  
 (11) Which of this interface must contain a unique element?  
 a) Set  
 c) Array  
 (12) Which of these interface/class not handle sequences?  
 a) ArrayList  
 c) Map  
 (13) Which of these class handle sorted order?  
 a) HashSet  
 c) TreeSet  
 (14) In which of the following type of ResultSet, the cursor can scroll forwards and backwards, and the result set is not sensitive to changes made by others to the database that occur after the result set was created?  
 a) ResultSet.TYPE\_FORWARD\_ONLY  
 c) ResultSet.TYPE\_SCROLL\_SENSITIVE  
 (15) Which of the following type of JDBC driver is typically used for development and testing purposes only?  
 a) Type-1  
 c) Type-3  
 (16) Which of the following is used generally used for altering the databases?  
 a) boolean execute()  
 c) int executeUpdate()  
 (17) Which of the following is correct about connection pooling?  
 a) Database vendor's help multiple clients to share a cached set of connection objects that provides access to a database.  
 c) Both Database vendor's help multiple clients to share a cached set of connection objects that provides access to a database & Clients need not create a new connection everytime to interact with the database  
 (18) What is the use of blob, clob datatypes in JDBC?  
 a) These are used to store large amount of data into database like images, movie etc which are extremely large in size.  
 c) Both These are used to store large amount of data into database like images, movie etc wh
- d) a class and an abstract class  
 b) Statement Object  
 d) String Object  
 b) deleteBatch()  
 d) addBatch()  
 b) List  
 d) Collection  
 b) List  
 d) Collection  
 b) List  
 d) LinkedList  
 b) Set  
 d) Vector  
 b) ResultSet.TYPE\_SCROLL\_INSENSITIVE  
 d) None of these  
 b) Type-2  
 d) Type-4  
 b) ResultSetexecuteQuery()  
 d) None of these  
 b) Clients need not create a new connection everytime to interact with the database  
 d) None of these  
 b) These are used to store XML data.  
 d) None of these



ich are extremely large in size These are use  
d to store XML data.

- (19) Which of the following is true about Hibernate?
- a) Hibernate is an Object-Relational Mapping tool.
  - b) It maps Objects to relational data
  - c) Both Hibernate is an Object-Relational Mapping tool. & It maps Objects to relational data
  - d) None of these
- (20) Which HTTP method are used to show the client what the server is receiving?
- a) GET
  - b) TRACE
  - c) RETURN
  - d) OPTIONS
- (21) Which type of object can store attribute?
- a) HttpServletRequest
  - b) ServletConfig
  - c) ServletResponse
  - d) RequestDispatcher
- (22) What is the Super class of HttpServlet?
- a) Servlet
  - b) JSP
  - c) Generic Servlet
  - d) Cookie
- (23) Which one is not in servlet Life Cycle
- a) Loading a Servlet.
  - b) Servlet Manipulation
  - c) Destroying the Servlet
  - d) Request handling
- (24) Applet is started by calling the method
- a) start()
  - b) initiate()
  - c) init()
  - d) create()
- (25) Cookie in javax.servlet.http package is a/an
- a) Class
  - b) Interface
  - c) Object
  - d) Method
- (26) Which of the following code is used to get an attribute in a HTTP Session object in servlets?
- a) session.getAttribute(String name)
  - b) session.alterAttribute(String name)
  - c) session.updateAttribute(String name)
  - d) session.setAttribute(String name)
- (27) Which of the following code retrieves the body of the request as binary data?
- a) `DataInputStream data = new InputStream()`
  - b) `DataInputStream data = response.getInputStream()`
  - c) `DataInputStream data = request.getInputStream()`
  - d) `DataInputStream data = request.fetchInputStream()`
- (28) When destroy() method of a filter is called?
- a) The destroy() method is called only once at the end of the life cycle of a filter
  - b) The destroy() method is called after the filter has executed doFilter method
  - c) The destroy() method is called only once at the beginning of the life cycle of a filter
  - d) The destroyer() method is called after the filter has executed
- (29) How is the dynamic interception of requests and responses to transform the information done?
- a) servlet container
  - b) servlet config
  - c) servlet context
  - d) servlet filter
- (30) Cookies were originally designed for \_\_\_\_\_
- a) Client-side programming
  - b) Server-side programming

- c) Both Client-side & Server-side programming      d) Web programming
- (31) Which of the following can be used to configure the scope of the Cookie visibility?
- a) path      b) domain  
c) both path and domain      d) sever
- (32) When doPost() method of servlet gets called?
- a) A POST request results from an HTML form that specifically lists POST as the METHOD.  
b) The service() method checks the HTTP request type as POST and calls doPost() method.  
c) Both A POST request results from an HTML form that specifically lists POST as the METHOD.& The service() method checks the HTTP request type as POST and calls doPost() method.  
d) None of these
- (33) Which of the following code is used to get locale in servlet?
- a) request.getLocale()      b) response.getLocale()  
c) new Locale()      d) None of these
- (34) Which of the following code retrieves name and version of the protocol?
- a) Header.getProtocol()      b) response.getProtocol()  
c) request.getProtocol()      d) None of these
- (35) Which of the following code can be used to add a date header?
- a) response.addDateHeader(name,date)      b) request.addDateHeader(name,date)  
c) Header.addDateHeader(name,date)      d) None of these
- (36) Which of the following are valid servlet filters?
- a) Authentication Filters.      b) Data compression Filters.  
c) Encryption Filters.      d) All of these
- (37) Which of the following way can be used to keep track of previous client request?
- a) Using cookies.      b) Using hidden form fields  
c) Using URL rewriting      d) All of these
- (38) Which are valid JSP implicit variable?
- a) Stream      b) Context  
c) Exception      d) Listener
- (39) In webservice terminology SOAP stands for
- a) Simple Object Access Protocol      b) Simple Object Access Procedure  
c) Standard Object Access Protocol      d) None of these
- (40) What is the full form of Java IDL?
- a) Internet Definition Language      b) Internal Domain Language  
c) Interface Definition Language      d) Intra Definition Language
- (41) Which of the following is an Application Programming Interface?
- a) JNDI      b) LDAP  
c) RMI      d) JNI
- (42) add() method return \_\_\_\_\_ type value.
- a) ini      b) float  
c) boolean      d) char
- (43) Collection is a
- a) class      b) interface



- c) object  
(44) Queue is a  
a) Class  
c) Object
- d) method  
b) Interface  
d) Method
- (45) JMS stands for  
a) Java Message Servlet  
c) Java Message Service
- b) Java Message Search  
d) Java Main Servlet
- (46) Which of these keywords is not a part of exception handling?  
a) try  
c) thrown
- b) finally  
d) catch
- (47) Which page directive should be used in JSP to generate a PDF page?  
a) contentType  
c) typePDF
- b) generatePdf  
d) contentPDF
- (48) Which tag should be used to pass information from JSP to included JSP?  
a) Using <%jsp:page> tag  
c) Using <%jsp:import> tag
- b) Using <%jsp:param> tag  
d) Using <%jsp:useBean> tag
- (49) Application is instance of which class?  
a) javax.servlet.Application  
c) javax.servlet.Context
- b) javax.servlet.HttpContext  
d) javax.servlet.ServletContext
- (50) Which Error Handling in Java handles runtime errors with exceptions, If an exception is not caught in your JSP or Servlet, Resin will use a special error page to send results back to the browser, Resin uses a default error page unless you explicitly provide an error page yourself?  
a) Client Request Time Processing Errors  
c) JSP Translation Time Processing Errors
- b) Compilation Time Processing Errors  
d) None of these
- (51) Which can generate HTML dynamically on the client but can hardly interact with the web server to perform complex tasks like database access and image processing etc. in JSP?  
a) vs.Static HTML  
c) vs.Pure Servlets
- b) vs.Server-Side Includes  
d) vs.JavaScript
- (52) Which two interfaces does the javax.servlet.jsp package have?  
a) JspPage  
c) Both JspPage & HttpJspPage
- b) HttpJspPage  
d) None of these
- (53) 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  
c) 10
- b) 9  
d) 7
- (54) Which tag is used to execute java source code in JSP?  
a) Declaration Tag  
c) Expression tag
- b) Scriptlet tag  
d) None of these
- (55) In MVC architecture 'view' component are basically  
a) HTML  
c) EJB
- b) JSP  
d) JavaBeans
- (56) Which one is not the JDBC API interface of class  
a) DriverManager
- b) Driver

c) ResultSet  
(57) How many drivers exists in JDBC driver category?

- a) 2
- c) 5
- b) 6
- d) 4

(58) In which tier architecture Business Logic includes in separate layer?

- a) 1-tier
- c) 2-tier
- b) n-tier
- d) 3-tier

(59) finally() method typically use to

- a) create a database
- c) open a database
- b) close a database
- d) view a database

(60) Lightweight Directory Application Protocol(LDAP) used as a directory service in

- a) RMI
- c) Servlet
- b) JNDI
- d) JTS

(61) What is Remote method invocation (RMI)?

- a) RMI allows us to invoke a method of java object that executes on another machine
- c) RMI allows us to invoke a method of java object that executes parallely in same machine
- b) RMI allows us to invoke a method of java object that executes on another Thread in multithreaded programming
- d) None of these

(62)

What will be the output?

```
public class Test {  
    static void test(float x){  
        System.out.print("float");  
    }  
  
    static void test(double x){  
        System.out.print("double");  
    }  
  
    public static void main(String[] args){  
        test(99.9);  
    }  
}
```

- a) float
- c) Compliation error
- b) double
- d) None of these

(63) Which are the session tracking techniques?

- i. URL rewriting
- ii. Using session object
- iii. Using response object
- iv. Using hidden fields
- v. Using cookies
- vi. Using servlet object

- a) i, ii, iii, vi
- c) i, vi, iii, v
- b) i, ii, iv, v
- d) i, ii, iii, v

(64) Which action tags are used in JSP for developing web application with Java Bean?

- a) jsp:useBean
- c) jsp:getProperty
- b) jsp:setProperty
- d) jsp:setProperty and jsp:getProperty

(65) Which one is the simple tier architecture?



- a) 1-tier  
c) 2-tier
- b) n-tier  
d) 3-tier
- (66) If you are accessing one type of database, such as Oracle, Sybase, or IBM, the preferred driver type is
- a) Type 1  
c) Type 3
- b) Type 2  
d) Type 4
- (67) executeUpdate (String SQL): method return \_\_\_\_\_ type value
- a) int  
c) boolean
- b) float  
d) char
- (68) FilterConfig.cs file is under in which App folder?
- a) App\_Data  
c) Content
- b) App\_Start  
d) Filters
- (69) Which is faster between ASPX View Engine and Razor View Engine.
- a) ASPX View Engine  
c) ASPX and Razor View Engine
- b) Razor View Engine  
d) None of these
- (70) \_\_\_\_\_ helps you to maintain data when you move from controller to view.
- a) View Bag  
c) Temp Data
- b) View Data  
d) None of above