



BRAINWARE UNIVERSITY
Term End Examination 2020 - 21
Programme – Bachelor of Computer Applications

Course Name – Advanced Java

Course Code - BCA503A

Semester / Year - Semester V

Time allotted : 85 Minutes

Full Marks : 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 70=70

1. *(Answer any Seventy)*

(i) Which of the following is not keyword in java?

- | | |
|-------------|------------|
| a) null | b) bimport |
| c) volatile | d) package |

(ii) Which of the following is generated when the source code is successfully compiled?

- | | |
|-------------|------------------|
| a) Output | b) Error |
| c) Bytecode | d) None of these |

(iii) 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 an 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 |

(iv) An Interface can have

- | | |
|-----------------------|-----------------|
| a) Abstract Functions | b) Functions |
| c) Variables | d) All of these |

(v) Which class cannot be subclassed (or extended) in java?

- a) abstract class
- b) parent class
- c) Final class
- d) None of these

(vi) Which of these return type of hasNext() method of an iterator?

- a) Integer
- b) Double
- c) Boolean
- d) Collections Object

(vii) Which of the following is correct about Statement?

- a) Used for general-purpose access to your database
- b) Useful when you are using static SQL statements at runtime.
- c) The Statement interface cannot accept parameters
- d) All of these

(viii) Which of these packages contain all the collection classes?

- a) java.lang
- b) java.util
- c) java.net
- d) java.awt

(ix) Which is not a valid statement based on given code?

- a) A a = new A();
- b) B a = new B();
- c) A a = new B();
- d) B b = new B();

(x) 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

(xi) We cannot instantiate

- a) a class
- b) an interface
- c) an abstract class and an interface
- d) a class and an abstract class

(xii) Which of these class handle sorted order?

- a) HashSet
- b) Set
- c) TreeSet
- d) Vector

(xiii) Which of the following is correct about Connection interface of JDBC?

- a) Connection interface consists of methods for contacting a database
- b) It represents communication context for contacting a database
- c) Both Connection interface consists of methods for contacting a database & It represents communication context
- d) None of these

(xiv) 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
- b) ResultSet.TYPE_SCROLL_INSENSITIVE
- c) ResultSet.TYPE_SCROLL_SENSITIVE
- d) None of these

(xv) Which of the following type of JDBC driver, talks with the server-side middleware that then talks to database?

- a) JDBC-ODBC Bridge plus ODBC driver
- b) Native-API, partly Java driver
- c) JDBC-Net, pure Java driver
- d) Native-protocol, pure Java drive

(xvi) 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

(xvii) Entity Beans represent persistent data in

- a) A database table
- b) EJB Application
- c) A Bean JAR
- d) Client Machine

(xviii) Which of the following protocols are stateless in nature?

- a) HTTP
- b) FTP
- c) UUCP
- d) TCP

(xix) Which type of objects are available to the `jspInit()` method?

- a) `ServletConfig`
- b) `JspServletConfig`
- c) `JspServletContext`
- d) `HttpServletRequest`

(xx) What is the Super class of `HttpServlet`?

- a) `Servlet`
- b) JSP
- c) `Generic Servlet`
- d) `Cookie`

(xxi) Which command allows a client to remove a file from a web server using HTTP?

- a) GET
- b) POST
- c) UNLINK
- d) DELETE

(xxii) Which one is not in servlet Life Cycle

- a) Loading a Servlet.
- b) Servlet Manipulation
- c) Destroying the Servlet
- d) Request handling

(xxiii) Applet is initialized by calling the method

- a) `start()`
- b) `initiate()`
- c) `init()`
- d) `create()`

(xxiv) `Servlet` in `javax.servlet` package is a/an

- a) Class
- b) Interface
- c) Object
- d) Method

(xxv) `Cookie` in `javax.servlet.http` package is a/an

- a) Class
- b) Interface

c) Object

d) Method

(xxvi) HttpSession in javax.servlet.http package is a/an

a) Class

b) Interface

c) Object

d) Method

(xxvii) 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

(xxviii) Cookies were originally designed for _____

a) Client-side programming

b) Server-side programming

c) Both Client-side & Server-side programming

d) Web programming

(xxix) The Cookie manipulation is done using which property?

a) cookie

b) cookies

c) manipulate

d) modify

(xxx) 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

(xxxi) Which of the following code is used to set the session timeout in servlets?

a) session.setMaxInactiveInterval(interval)

b) response.setMaxInactiveInterval(interval)

c) request.setMaxInactiveInterval(interval)

d) None of these

(xxxii) Which of these interface/class gives easy insertion process?

- a) Vector
- b) ArrayDeque
- c) HashSet
- d) LinkedList

(xxxiii) add() method return _____ type value.

- a) ini
- b) float
- c) boolean
- d) char

(xxxiv) Collection is a

- a) class
- b) interface
- c) object
- d) method

(xxxv) Which is not the true statement about Servlet and JSP?

- a) Servlet is faster than JSP.
- b) JSP is a html based code.
- c) Servlet is a java code
- d) JSP is platform dependent

(xxxvi) Which page directive should be used in JSP to generate a PDF page?

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

(xxxvii) 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

(xxxviii) Application is instance of which class?

- a) `javax.servlet.Application`
- b) `javax.servlet.HttpContext`
- c) `javax.servlet.Context`
- d) `javax.servlet.ServletContext`

(xxxix) Which option is true about session scope?

- a) Objects are accessible only from the
- b) Objects are accessible only from the

page in which they are created

c) Objects are accessible only from the pages which are processing the same request

pages which are in same session

d) Objects are accessible only from the pages which reside in same application

(xl) 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

(xli) Which tag is used to execute java source code in JSP?

a) Declaration Tag

b) Scriptlet tag

c) Expression tag

d) None of these

(xlii) What does MVC pattern stands for?

a) Mock View Control

b) Model view Controller

c) Mock View Class

d) Model View Class

(xliii) In MVC architecture 'view' component are basically

a) HTML

b) JSP

c) EJB

d) JavaBeans

(xliv) Which is the pipe between Java programme and RDBMS?

a) Response

b) JDBC

c) Statement Object

d) Connection Object

(xlv) In JSP page directive which attribute defines the MIME(Multipurpose Internet Mail Extension) type of the HTTP response?

a) import

b) Content Type

c) Extends

d) Info

(xlvi) Which one is not the JDBC API interface of class

- a) DriverManager
- b) Driver
- c) ResultSet
- d) Connection

(xlvii) finally() method typically use to

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

(xlviii) Which is not the Programming languages for client-side programming

- a) HTML
- b) CSS
- c) PHP
- d) AJAX

(xlix) Which method is used to binds the objects in the RMI registry

- a) rebind()
- b) lookup()
- c) bond()
- d) None of these

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

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

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

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

(lii) Which of these package is used for remote method invocation?

- a) java.applet
- b) java.rmi

c) java.lang.rmi

d) java.lang.reflect

(lii) Which of these methods are member of Remote class?

a) checkIP()

b) addLocation()

c) AddServer()

d) None of these

(liv) Which of these Exceptions is thrown by remote method?

a) RemoteException

b) InputOutputException

c) RemoteAccessException

d) RemoteInputOutputException

(lv)

Which one is the simple tier architecture?

a)

b)

1-tier

n-tier

c)

d)

2-tier

3-tier

(lvi)

100% pure JDBC driver is _____ driver.

a)

b)

Type 1

Type 2

c)

d)

Type 3

Type 4

(lvii)

If you are accessing one type of database, such as Oracle, Sybase, or IBM, the preferred driver type is

- | | |
|--------|--------|
| a) | b) |
| Type 1 | Type 2 |
| c) | d) |
| Type 3 | Type 4 |

(lviii)

If your Java application is accessing multiple types of databases at the same time

- | | |
|--------|--------|
| a) | b) |
| Type 1 | Type 2 |
| c) | d) |
| Type 3 | Type 4 |

(lix)

execute (String SQL): method return_____type value.

- | | |
|---------|-------|
| a) | b) |
| int | float |
| c) | d) |
| boolean | char |

(lx)

executeUpdate (String SQL): method return_____type value

- | | |
|----|----|
| a) | b) |
|----|----|

int

float

c)

d)

boolean

char

(lxi)

MVC framework is defined in Assembly.

a)

b)

System.CSS.Mvc

System.Net.Mvc

c)

d)

System.View.Mvc

System.Web.Mvc

(lxii)

In MVC helps you to execute logic while MVC action is executed or its executing.

a)

b)

beforeFilter()

afterFilter()

c)

d)

ActionFilters

ControlFilter()

(lxiii) <table class="MsoNormalTable" border="0" cellspacing="0" cellpadding="0" width="1118" style="margin-left:-13.5pt;border-collapse:collapse;mso-table-layout-alt:fixed;

a)

b)

model name

view name

c)

d)

view object

All of these

(lxiv)

You can use class to send the result back in JSON format in MVC

a)

b)

JSONRESULT

JSONBACKRESULT

c)

d)

JSONRETURNRESULT

JSONRETURN

(lxv)

For controller action method returns nothing as the result.

a)

b)

ResultEmpty

EmptyResult

c)

d)

ReturnEmpty

EmptyReturn

(lxvi)

Which tool is used for unit testing in MVC

a)

b)

moq

Junit

c)

d)

xunit

Funit

(lxvii)

Which method in naming class specifies a name to the remote object?

a)

b)

bind(string name)

rebind(string name)

c)

d)

Both bind and rebind

None of these

(lxviii)

Which is a one-way communication only between the client and the server, which is not only a reliable but also there is no confirmation regarding reaching the message to the destination?

a)

b)

TCP/IP

UDP

c)

d)

Both TCP/IP & UDP

None of these

(lxix)

RMI uses which protocol on top of TCP/IP (an analogy is HTTP over TCP/IP)?

a)

b)

Java Remote Method Protocol (JRMP)

Internet Inter-ORB Protocol (IIOP)

c)

d)

Jinni Extensible Remote Invocation (JERI)

All mentioned above

(lxx)

Which method of the Naming class (found in java.rmi) is used to update the RMI registry on the server machine?

a)

rebind ()

c)

Both rebind() & lookup()

b)

lookup()

d)

None of these