

SUBJECT CODE: 602

SUBJECT NAME: ADVANCED JAVA

Unit 1 : JDBC

Multiple Choice Questions

1. Which of the following contains both date and time?
 - A) java.io.date
 - B) java.sql.date
 - C) java.util.date
 - D) java.util.dateTime

2. 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

3. Which of the following is advantage of using PreparedStatement in Java?
 - A) Slow performance
 - B) Encourages SQL injection
 - C) Prevents SQL injection
 - D) More memory usage

4. Which one of the following contains date information?

- A) java.sql.TimeStamp
- B) java.sql.Time
- C) java.io.Time
- D) java.io.TimeStamp

5. What does setAutoCommit(false) do?

- A) commits transaction after each query
- B) explicitly commits transaction
- C) does not commit transaction automatically after each query
- D) never commits transaction

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

- A) Statement
- B) PreparedStatement
- C) CallableStatement
- D) CalledStatement

7. 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)

8. Which of the following is method of JDBC batch process?

- A) setBatch()
- B) deleteBatch()
- C) removeBatch()
- D) addBatch()

9. Which of the following is used to rollback a JDBC transaction?

- A) rollback()
- B) rollforward()
- C) deleteTransaction()
- D) RemoveTransaction()

10. Which of the following is not a JDBC connection isolation levels?

- A) TRANSACTION_NONE
- B) TRANSACTION_READ_COMMITTED
- C) TRANSACTION_REPEATABLE_READ
- D) TRANSACTION_NONREPEATABLE_READ

11) Which driver uses ODBC driver to connect to the database?

- A) JDBC-ODBC bridge driver
- B) Native - API driver
- C) Network Protocol driver

D) Thin driver

12) How many JDBC product components does the Java software provides?

A)3

B)2

C)4

D)5

13) How many types of JDBC drivers are available?

A) 3

B) 4

C) 2

D) 5

14) Which result set generally does not show changes to the underlying database that are made while it is open. The membership, order, and column values of rows are typically fixed when the result set is created?

A) TYPE_FORWARD_ONLY

B) TYPE_SCROLL_INSENSITIVE

C) TYPE_SCROLL_SENSITIVE

D) ALL MENTIONED ABOVE

15) JDBC is a Java API that is used to connect and execute query to the database

- A) True
- B) False

16) Which method is used for an SQL statement that is executed frequently?

- A) prepare Statement
- B) prepare Call
- C) create Statement
- D) None of the above

17) What is used to execute parameterized query?

- A) Statement interface
- B) PreparedStatement interface
- C) ResultSet interface
- D) None of the above

18) Which JDBC product components does the Java software provide?

- A) The JDBC driver manager
- B) The JDBC driver test suite
- C) The JDBC-ODBC bridge
- D) All mentioned above

19) JDBC stands for?

- A) Java database connectivity
- B) Java database concept
- C) Java database communications
- D) None of the above

20) Which class has traditionally been the backbone of the JDBC architecture?

- A) JDBC driver manager
- B) JDBC driver test suite
- C) JDBC-ODBC bridge
- D) All mentioned above

ANSWER KEY									
Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
D	D	C	A	C	C	A	D	A	D
Q.11	Q.12	Q.13	Q.14	Q.15	Q.16	Q.17	Q.18	Q.19	Q.20
A	A	B	B	A	A	B	D	A	A

Unit 2 : Networking

1. Which of these package contains classes and interfaces for networking?

- A) java.io
- B) java.util
- C) java.net
- D) java.network

2. Which of these is a protocol for breaking and sending packets to an address across a network?

- A) TCP/IP
- B) DNS
- C) Socket
- D) proxy server

3. Which class is used to create servers that listen for either local client or remote client program?

- A) ServerSockets
- B) httpserver
- C) httpResponse
- D) none

4. Which methods are commonly used in server socket class?

- A) public outputStream getOutputStream()
- B) public socket accept()
- C) public synchronized void close()
- D) none

5. Which method of URL class represent a URL and it has complete set of methods to manipulate URL in java?

- A) java.net.URL
- B) java.net.URLConnection
- C) both A and B
- D) none

6. Which package provides core functionality?

- A) java.net
- B) java.rmi
- C) java.lang
- D) java.math

7. The URLConnection class can be used to read and write data to specified resource referred by the URL.

A) true

B) false

8. Datagram is basically an information but there is no guarantee of its content,arrival or arrival time.

A) true

B) false

9. What does the java.net.InetAddress class represent?

A) Socket

B) IP address

C) Protocol

D) MAC address

10. The flush() method of printStream class flushes any uncleared buffers in memory?

A) true

B) false

11) TCP,FTP,Telnet,SMTP are example of?

A) Socket

B) IP address

C) Protocol

D) MAC address

12) In InetAddress class which method returns the host name of IP address?

A) public String getHostName()

B) public String getHostAddress()

C) public String InetAddress getLocalHost()

D) none

13) Show some networking terminology given below?

A) All

B) IP address

C) Protocol

D) MAC address

14) URL is an acronym for?

A) Uniform Resource Locator

B) Unified resource location

C) Uniform restore Locator

D) unified restore locator

15) Which classes are used for connection less socket programming?

A) Datagram Socket

B) Datagram packet

C) Both a and b

D) none

16) how many ports TCP/IP are reserved for specific protocol?

A) 10

B) 1024

C) 2048

D) 512

17) how many bits are in a single IP address?

A) 8

B) 16

C) 32

D) 64

18) Which of these class is used to encapsulate IP address and DNS?

A) Datagram packet

B) URL

C) InetAddress

D) ContentHandler

19) Which of these is return type of getAddress method of DatagramPacket class?

- A) findAddress()
- B) getAddress()
- C) Address()
- D) Whois()

20) Which of these method of DatagramPacket is used to find port number?

- A) port()
- B) getPort()
- C) findPort()
- D) receivedPort()

ANSWER KEY									
Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
C	A	A	B	A	C	A	A	B	A
Q.11	Q.12	Q.13	Q.14	Q.15	Q.16	Q.17	Q.18	Q.19	Q.20
C	A	A	A	C	B	C	C	B	A

Unit 3 : JSP and SERVLET

- 1) Connection Pooling Class manages no of user requests for connections to improve the performance.
 - A) True
 - B) False

- 2) Which object of HttpSession can be used to view and manipulate information about a session?
 - A) session identifier
 - B) creation time
 - C) last accessed time
 - D) All mentioned above

- 3) Using mail API we cannot send mail from a servlet.
 - A) True
 - B) False

- 4) Which class provides stream to read binary data such as image etc from the request object?
 - A) ServletInputStream
 - B) ServletOutputStream

- C) Both A & B
- D) None of the above
- 5) The sendRedirect() method of HttpServletResponse interface can be used to redirect response to another resource, it may be servlet, jsp or html file.
- A) True
- B) False
- 6) Which of these ways used to communicate from an applet to servlet?
- A) RMI Communication
- B) HTTP Communication
- C) Socket Communication
- D) All mentioned above
- 7) Which methods are used to bind the objects on HttpSession instance and get the objects?
- A) setAttribute
- B) getAttribute
- C) Both A & B
- D) None of the above
- 8) Which type of ServletEngine is a server that includes built-in support for servlets?

- A) Add-on ServletEngine
- B) Embedded ServletEngine
- C) Standalone ServletEngine
- D) None of the above
- 9) What type of servlets use these methods doGet(), doPost(),doHead, doDelete(), doTrace()?
- A) Generic Servlets
- B) HttpServlets
- C) All of the above
- D) None of the above
- 10) Which cookie it is valid for single session only and it is removed each time when the user closes the browser?
- A) Persistent cookie
- B) Non-persistent cookie
- C) All the above
- d) None of the above
- 11) JavaServer Pages often serve the same purpose as programs implemented using the Common Gateway Interface (CGI)

A) True

B) False

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

A) `jsp:useBean`

B) `jsp:setProperty`

C) `jsp:getProperty`

D) Both B & C

13) Which technology do we mix our business logic with the presentation logic?

A) Servlet

B) JSP

C) Both A & B

D) None of the above

14) Which is the Microsoft solution for providing dynamic Web content?

A) ASP

B) JSP

C) Both A & B

D) None of the above

15) A bean encapsulates many objects into one object, so we can access this object from multiple places.

A) True

B) False

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

A) Declaration Tag

B) Scriptlet tag

C) Expression tag

D) None of the above

17) Which JSP Action tags is used to include the content of another resource, it may be jsp, html or servlet?

A) jsp:include

B) jsp:forward

C) jsp:plugin

D) jsp:papam

18) In JSP how many ways are there to perform exception handling?

A) 3

B) 2

C) 4

D) 5

19) 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

20) A JSP page consists of which tags?

- A) HTML tags
- B) JSP tags
- C) Both A & B
- D) None of the above

ANSWER KEY									
Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
A	D	B	A	A	D	C	C	B	B
Q.11	Q.12	Q.13	Q.14	Q.15	Q.16	Q.17	Q.18	Q.19	Q.20
A	D	A	A	A	B	A	B	B	C

Unit 4 : Multithreading

- 1) In java multi-threading, a thread can be created by
 - a. Extending Thread class
 - b. Implementing Runnable interface
 - c. Using both
 - d. None

- 2) Which method is called internally by Thread start() method?
 - a. execute()
 - b. run()
 - c. launch()
 - d. main()

- 3) What is maximum thread priority in Java
 - a. 10
 - b. 12
 - c. 5
 - d. 8

- 4) Which method must be implemented by a Java thread?
 - a. run()

- b. execute()
- c. start()
- d. None

Q5) Number of threads in below java program is

```
public class ThreadExtended extends Thread {  
    public void run() {  
        System.out.println("\nThread is running now\n");  
    }  
    public static void main(String[] args) {  
        ThreadExtended threadE = new ThreadExtended();  
        threadE.start();  
    }  
}
```

- a) 0
- b) 1
- c) 2
- d) 3

Q6) Execution of a java thread begins on which method call?

- a) Start ()
- b) Run ()
- c) Execute ()

d) Launch ()

Q7) How many ways a thread can be created in Java multithreading?

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

Q8) Which statements is/are correct

- a) On calling Thread start () method a new thread get created.
- b) Thread start () method call run () method internally
- c) Thread run () method can also be called directly to create thread.
- d) All correct

Q9) Which method is used to make main thread to wait for all child threads

- a) Join ()
- b) Sleep ()
- c) Wait ()
- d) Stop ()

Q10) Default value of a java thread is

- a) 0
- b) 1
- c) 5

d) 10

Q11) If a priority of a java thread is 3 then the default priority of its child thread will be

- a) 0
- b) 1
- c) 5
- d) 3

Q12) Which method is used to check if a thread is running?

- a) isAlive()
- b) run ()
- c) alive ()
- d) keepAlive()

Q13) True statement about process and thread is/are

- a) If a child process crashes all main process will also be crashed
- b) If a child thread is crash entire process will crash
- c) Threads have their own memory stack
- d) Each process has different virtual space

Q14) Min and Max priority of a thread in Java multithreading are

- a) 1, 10
- b) 0,10

- c) 0,255
- d) 1,256

Q15) Which method we implement from Runnable interface?

- a) Run ()
- b) Start ()
- c) Execute ()
- d) call ()

Q16) Daemon thread runs in

- a) Background
- b) Foreground
- c) Both
- d) none

Q17) Which method is used to create a daemon thread?

- a) setDaemon(boolean value)
- b) setThread(boolean value)
- c) createDaemon(boolean value)
- d) makeDeamon(boolean value);

Q18) To create a daemon thread

- a) First thread setDaemon() is called then start()
- b) First thread start() is called then setDaemon()
- c) Call thread start() and setDaemon() in any order

d) All correct

Q19) Which method is used to wait for child threads to finish in Java?

- a) Wait ()
- b) Sleep ()
- c) Join ()
- d) isAlive()

Q20) Which will contain the body of the thread in Java?

- a) Start()
- b) Run()
- c) Main()
- d) Execute()

ANSWER KEY									
Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
C	B	A	A	C	A	B	A&B	A	C
Q.11	Q.12	Q.13	Q.14	Q.15	Q.16	Q.17	Q.18	Q.19	Q.20
D	A	B,C,D	A	A	A	A	A	C	B

Unit 5 : java Beans and RMI

1. Which of the following is not an Enterprise Beans type?
 - a) Doubleton
 - b) Singleton
 - c) Stateful
 - d) Stateless
2. Which of the following is not true about Java beans?
 - a) Implements java.io.Serializable interface
 - b) Extends java.io.Serializable class
 - c) Provides no argument constructor
 - d) Provides setter and getter methods for its properties
3. Which file separator should be used by MANIFEST file?
 - a) /
 - b) \
 - c) –
 - d) //
4. Which of the following is correct error when loading JAR file with duplicate name?

- a) java.io.NullPointerException
- b) java.lang.ClassNotFound
- c) java.lang.ClassFormatError
- d) java.lang.DuplicateClassError

5. Java Beans are extremely secured?

- a) True
- b) False

6. Which of the following is not a feature of Beans?

- a) Introspection
- b) Events
- c) Persistence
- d) Serialization

7. What is the attribute of java bean to specify scope of bean to have single instance per Spring IOC?

- a) prototype
- b) singleton
- c) request
- d) session

8. Which attribute is used to specify initialization method?

- a) init
- b) init-method
- c) initialization
- d) initialization-method

9. Which attribute is used to specify destroy method?

- a) destroy
- b) destroy-method
- c) destruction
- d) destruction-method

10. How to specify autowiring by name?

- a) @Qualifier
- b) @Type
- c) @Constructor
- d) @Name

11. 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 the mentioned

12. Which of these package is used for remote method invocation?

a) java.applet

b) java.rmi

c) java.lang.rmi

d) java.lang.reflect

13. Which of these methods are member of Remote class?

a) checkIP()

b) addLocation()

c) AddServer()

d) None of the mentioned

14. Which of these Exceptions is thrown by remote method?

a) RemoteException

b) InputOutputException

c) RemoteAccessException

d) RemoteInputOutputException

15. Which of these class is used for creating a client for a server-client operations?

- a) serverClient.java
- b) Client.java
- c) AddClient.java
- d) ServerClient.java

16. Which of these package is used for all the text related modifications?

- a) java.text
- b) java.awt
- c) java.lang.text
- d) java.text.modify

17. What will be the output of the following Java code?

```
import java.lang.reflect.*;
class Additional_packages
{
    public static void main(String args[])
    {
        try
        {
            Class c = Class.forName("java.awt.Dimension");
            Constructor constructors[] = c.getConstructors();
            for (int i = 0; i < constructors.length; i++)
```

```
        System.out.println(constructors[i]);
    }
    catch (Exception e)
    {
        System.out.print("Exception");
    }
}
}
```

- a) Program prints all the constructors of 'java.awt.Dimension' package
- b) Program prints all the possible constructors of class 'Class'
- c) Program prints "Exception"
- d) Runtime Error

18. What will be the output of the following Java code?

```
import java.lang.reflect.*;
class Additional_packages
{
    public static void main(String args[])
    {
        try
        {
            Class c = Class.forName("java.awt.Dimension");
```

```
Field fields[] = c.getFields();
for (int i = 0; i < fields.length; i++)
    System.out.println(fields[i]);
}
catch (Exception e)
{
System.out.print("Exception");
}
}
}
```

- a) Program prints all the constructors of 'java.awt.Dimension' package
- b) Program prints all the methods of 'java.awt.Dimension' package
- c) Program prints all the data members of 'java.awt.Dimension' package
- d) program prints all the methods and data member of 'java.awt.Dimension' package

19. What is the length of the application box made in the following Java program?

```
import java.awt.*;
import java.applet.*;
public class myapplet extends Applet
{
    Graphic g;
```

```
g.drawString("A Simple Applet",20,20);  
}
```

- a) 20
- b) Default value
- c) Compilation Error
- d) Runtime Error

20. What will be the output of the following Java program?

```
import java.lang.reflect.*;  
class Additional_packages  
{  
    public static void main(String args[])  
    {  
        try  
        {  
            Class c = Class.forName("java.awt.Dimension");  
            Method methods[] = c.getMethods();  
            for (int i = 0; i < methods.length; i++)  
                System.out.println(methods[i]);  
        }  
        catch (Exception e)  
        {
```



```
System.out.print("Exception");  
    }  
    }  
}
```

- a) Program prints all the constructors of 'java.awt.Dimension' package
- b) Program prints all the methods of 'java.awt.Dimension' package
- c) Program prints all the data members of 'java.awt.Dimension' package
- d) program prints all the methods and data member of 'java.awt.Dimension' package

ANSWER KEY									
Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
A	B	A	C	B	D	B	B	B	A
Q.11	Q.12	Q.13	Q.14	Q.15	Q.16	Q.17	Q.18	Q.19	Q.20
A	B	D	A	C	A	A	C	C	B