

**MASTER OF COMPUTER APPLICATION
SECOND SEMESTER
ADVANCED JAVA
MCA-201**

**SET
A**

[USE OMR FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

Marks: 20

1X20=20

(**Objective**)

Choose the correct answer from the following:

1. Where is System class defined?
 - a. java.lang.package
 - b. java.util.package
 - c. java.io.package
 - d. None of these
2. An interface with no fields or methods is known as a _____.
 - a. Runnable Interface
 - b. Marker Interface
 - c. Abstract Interface
 - d. CharSequence Interface
3. When is the object created with new keyword?
 - a. At run-time
 - b. At compile time
 - c. Depends on code
 - d. None of these
4. Identify the output of the following program.

```
String str="abcde";  
System.out.print(str.substring(1,3));
```

 - a. abc
 - b. bc
 - c. bcd
 - d. cde
5. What is true about private constructor?
Private constructor ensures only one
 - a. instance of a class exist at any point of time
 - b. instances of a class exist at any point of time
 - c. Private constructor eases the instantiation of a class
 - d. Private constructor allows creating objects in other classes
6. Exception created by try block is caught in which block.
 - a. catch
 - b. throw
 - c. final
 - d. none
7. How constructor can be used for a servlet?
 - a. Initialization
 - b. Constructor function
 - c. Initialization and Constructor function
 - d. Setup() method

8. Which of the following is used to find and fix bugs in the program?
 - a. JDK
 - b. JVM
 - c. JRM
 - d. JDB
9. Which of the following is true about the anonymous inner class?
 - a. It has only methods
 - b. Objects can't be created
 - c. It has a fixed class name
 - d. It has no class name
10. Which statement is true about Java?
 - a. Java is a sequence-dependent programming language
 - b. Java is a code dependent programming language
 - c. Java is a platform-independent programming language
 - d. Java is a platform-dependent programming language
11. Select the packages in which JDBC classes are defined?
 - a. jdbc and javax.jdbc
 - b. rdb and javax.rdb
 - c. jdbc and java.jdbc.sql
 - d. sql and javax.sql
12. Data members and member functions of a class are private by default. True or False?
 - a. Depends on code
 - b. True
 - c. False
 - d. None
13. Where are the following four method commonly used?
 1. public void add(Component c)
 2. Public void setSize(int width,int height)
 3. Public void setLayout(LayoutManager m)
 4. Public void setVisible(Boolean)
 - a. Graphics class
 - b. Component class
 - c. Both A & B
 - d. None of the above
14. What are the major components of the JDBC?
 - a. DriverManager, Driver, Connection, Statement, and ResultSet
 - b. DriverManager, Driver, Connection, and Statement
 - c. DriverManager, Statement, and ResultSet
 - d. DriverManager, Connection, Statement, and ResultSet
15. What is the correct sequence to create a database connection?
 - i) Import JDBC packages.
 - ii. Open a connection to the database.
 - iii. Load and register the JDBC driver.
 - iv. Execute the statement object and return a query resultset.
 - v. Create a statement object to perform a query.
 - vi. Close the resultset and statement objects.
 - vii. Process the resultset.
 - viii. Close the connection.

- a. i, ii, iii, v, iv, vii, viii, vi
b. i, iii, ii, v, iv, vii, vi, viii
c. ii, i, iii, iv, viii, vii, v, vi
d. i, iii, ii, iv, v, vi, vii, viii
16. Which of the following method is used to perform DML statements in JDBC?
a. executeResult()
b. executeQuery()
c. executeUpdate()
d. execute()
17. Which methods are required to load a database driver in JDBC?
a. getConnection()
b. registerDriver()
c. forName()
d. Both b and c
18. Which of the following package contains servlet classes?
a. javax.servlet
b. javax.servlet.http
c. Both A & B
d. None of these
19. Which of the following method can be used to get complete list of all parameters in the current request?
a. request.getParameter()
b. request.getParameterValues()
c. request.getParameterName()
d. None of these
20. What would be the behaviour if this() and super() used in a method?
a. Runtime error
b. Throws exception
c. compile time error
d. Runs successfully

(Descriptive)

Time : 2 hrs. 30 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. What are the advantages of OOPs? Explain JVM, JDK and JRE. 4+6=10
2. a. What is DriverManager in JDBC? Define the steps to connect database in java program. 6+4=10
b. Define the component of JDBC API.
3. a. Explain the life cycle of servlet. Write about the advantages of Servlet. 5+5=10
b. What is AWT? What are the components of AWT.
4. a. What is package? Explain its categories. 5+5=10
b. What is thread in Java? How can it help the java developer?
5. Define stream. How can we read user defined values from standard input devices? Write programming statements to read all data from a predefined file. 3+3+4=10
6. What is exception? Why it is necessary for programming. Write a java programme to input two distances and compare them. 2+8=10
7. Define with categories of interface and inheritance in java. What is the role of inheritance in programming language? 5+5=10
8. Create a class to store the record of Account for holding the record of bank account holder. An account can be of two types-Saving account or Current Account. Saving account holder get interest on specific rate of interest and current account holder have an overdraft limit(withdraw/deposit amount up-to specific limit). Both type of Account have withdraw and deposit operation. Write a java programme to display the records of Current account and Saving account. 10

= = *** = =