

Java Assessment BC-101

Points: 21/25

✓ **Correct** 1/1 Points

1. Which among the following cannot be used for the concept of polymorphism?

- ☒ Static member function
- ☐ Constructor Overloading
- ☐ Member function overloading
- ☐ Global member function

✓ **Correct** 1/1 Points

2. You have a class Person with private fields name and age. How can you provide read-only access to these fields?

Question: Which of the following options provides read-only access to the name and age fields of the Person class?

- ☒ Define public getter methods for name and age fields.
- ☐ Define public setter methods for name and age fields.

- ☐ Make name and age fields public.
- ☐ Use the final keyword for name and age fields.

✓ **Correct** 1/1 Points

3. Which two features of object-oriented programming are the same?

- ☐ Abstraction and Polymorphism features are the same
- ☐ Inheritance and Encapsulation features are the same
- ☐ Encapsulation and Polymorphism features are the same
- ☒ Encapsulation and Abstraction

✓ **Correct** 1/1 Points

4. Which class is used to establish a database connection in JDBC?

- ☐ java.sql.Connection
- ☒ java.sql.DriverManager
- ☐ java.sql.Statement
- ☐ java.sql.ResultSet

✓ **Correct** 1/1 Points

5. 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.

- ☐ i, ii, iii, v, iv, vii, viii, vi
- ☒ i, iii, ii, v, iv, vii, vi, viii
- ☐ ii, i, iii, iv, viii, vii, v, vi
- ☐ i, iii, ii, iv, v, vi, vii, viii

✓ **Correct** 1/1 Points

6. Which method of the ResultSet interface is used to move the cursor to the next row in the result set?

- ☒ next()
- ☐ moveToNext()
- ☐ fetchNext()
- ☐ fetchRow()

✓ **Correct** 1/1 Points

7. Which of the following method is used to perform DML statements in JDBC?

- ☐ executeResult()
- ☐ executeQuery()
- ☒ executeUpdate()
- ☐ execute()

✓ **Correct** 1/1 Points

8. Which of the following is advantage of using PreparedStatement in Java?

- ☐ Slow Performance
- ☐ Encourages SQL Injection
- ☒ Prevents SQL Injection
- ☐ More memory usage

✓ **Correct** 1/1 Points

9. Which of these access specifiers can be used for an interface?

- ☒ Public
- ☐ Protected
- ☐ private
- ☐ All of the mentioned

✓ **Correct** 1/1 Points

10. Which feature of OOPS derives the class from another class?

- ☒ Inheritance
- ☐ Data hiding
- ☐ Encapsulation
- ☐ Polymorphism

✓ **Correct** 1/1 Points

11. What will be the output when you run this code?

```
try {  
    throw new IOException();  
} catch (FileNotFoundException e) {  
    System.out.println("File Not Found");  
} catch (IOException e) {  
    System.out.println("IO Exception");  
} catch (Exception e) {  
    System.out.println("Exception");  
}
```

- ☐ "File Not Found"
- ☒ "IO Exception"
- ☐ "Exception"
- ☐ It will not compile.

✓ **Correct** 1/1 Points

12. Which of these keywords is not a part of exception handling?

- ☐ try
- ☐ finally
- ☒ thrown
- ☐ catch

✓ **Correct** 1/1 Points

13. You want to retrieve data from a result set using a column name. Which method of the ResultSet object should you use?

- ☐ getObject()
- ☐ getInt()
- ☒ getString()
- ☐ getValueByColumnName()

✓ **Correct** 1/1 Points

14. ____ annotation indicates that the method must be called before every test.

- ☐ @AfterClass
- ☒ @Before
- ☐ @BeforeClass
- ☐ @Test(timeout=1000)

✓ **Correct** 1/1 Points

15. Which JUnit assertion method is used to check if a condition is true?

- ☒ assertTrue()
- ☐ assertCondition()
- ☐ isTrue()
- ☐ checkTrue()

✗ **Incorrect** 0/1 Points

16. JUnit test files are written in files with which file extension?

- ☐ .unit
- ☐ .java
- ☒ .test
- ☐ .junit

✓ **Correct** 1/1 Points

17. In MAVEN POM stands for?

- ☐ Project Object Method
- ☒ Project Object Model
- ☐ Process Object Method
- ☐ Process Object Model

✗ **Incorrect** 0/1 Points

18. Parameterized queries can be executed by?

- ☒ ParameterizedStatement
- ☐ PreparedStatement
- ☐ CallableStatement and Parameterized Statement
- ☐ All kinds of Statements

✗ **Incorrect** 0/1 Points

19. What is the extension of compiled java classes?

- ☐ .txt
- ☐ .js
- ☐ .class
- ☒ .java

✓ **Correct** 1/1 Points

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

```
class exception_handling
{
    public static void main(String args[])
    {
        try
        {
            System.out.print("Hello" + " " + 1 / 0);
        }
        catch(ArithmeticException e)
```



```
{  
    System.out.print("World");  
}  
}
```

- ☐ Hello
- ☒ World
- ☐ HelloWorld
- ☐ Hello World

✓ **Correct** 1/1 Points

21. Which component is used to compile, debug and execute the java programs?

- ☐ JRE
- ☐ JIT
- ☒ JDK
- ☐ JVM

✓ **Correct** 1/1 Points

22. You are working on a project where you need to store key-value pairs with unique keys. Which Java collection is suitable for this purpose?

Question: Which Java collection is suitable for storing key-value pairs with unique keys?

- ☐ ArrayList
- ☒ HashMap

- ☐ HashSet
- ☐ LinkedList

✓ **Correct** 1/1 Points

23. You have a class Car with a method startEngine(). You want to allow subclasses to provide their own implementation of the startEngine() method. Which keyword should you use?

- ☐ override
- ☐ final
- ☒ abstract
- ☐ extends

✗ **Incorrect** 0/1 Points

24. Which environment variable is used to set the java path?

- ☐ MAVEN_Path
- ☐ JavaPATH
- ☒ JAVA
- ☐ JAVA_HOME

✓ **Correct** 1/1 Points

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

class variable_scope

```
{  
    public static void main(String args[])  
    {  
        int x;  
        x = 5;  
        {  
            int y = 6;  
            System.out.print(x + " " + y);  
        }  
        System.out.println(x + " " + y);  
    }  
}
```

☒ Compilation error

☐ Runtime error

☐ 5 6 5 6

☐ 5 6 5

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