Question1: START  
What will be the output of the following Java code?

public class Main {

public static void main(String[] args) {

int a = 5;

int b = 10;

System.out.println(a + b);

}

}

Question1: END

Option\_a: 15  
Option\_b: 5  
Option\_c: Compile time error  
Option\_d: Undefined output  
correct\_option: 15

Question2: START  
Which of the following is the correct syntax for a for loop in Java?

Question2: END

Option\_a: for (initialization; condition)  
Option\_b: for initialization; condition; increment  
Option\_c: for (initialization; condition; increment)  
Option\_d: for (initialization condition increment)  
correct\_option: for (initialization; condition; increment)

Question3: START  
Which of the following is not a valid Java variable name?

Question3: END

Option\_a: int num;  
Option\_b: float rate;  
Option\_c: int variable\_count;  
Option\_d: int 2value;  
correct\_option: int 2value;

Question4: START  
What is the return type of new keyword in Java?

Question4: END

Option\_a: void  
Option\_b: int  
Option\_c: A reference to the created object  
Option\_d: None of the above  
correct\_option: A reference to the created object

Question5: START  
What will be the output of the following Java code?

public class Main {

public static void main(String[] args) {

int a = 5;

int b = ++a;

System.out.println(b);

}

}

Question5: END

Option\_a: 5  
Option\_b: 6  
Option\_c: 7  
Option\_d: Compile time error  
correct\_option: 6

Question6: START  
Which of the following operators cannot be overloaded in Java?

Question6: END

Option\_a: +  
Option\_b: =  
Option\_c: ::  
Option\_d: All of the above  
correct\_option: All of the above

Question7: START  
In Java, what is the size of an int data type?

Question7: END

Option\_a: 2 bytes  
Option\_b: 4 bytes  
Option\_c: 8 bytes  
Option\_d: Depends on the JVM  
correct\_option: 4 bytes

Question8: START  
Which of the following is not a valid access modifier in Java?

Question8: END

Option\_a: public  
Option\_b: private  
Option\_c: protected  
Option\_d: internal  
correct\_option: internal

Question9: START  
Which loop in Java is guaranteed to execute at least once?

Question9: END

Option\_a: for loop  
Option\_b: while loop  
Option\_c: do-while loop  
Option\_d: None of the above  
correct\_option: do-while loop

Question10: START  
What is the output of the following Java code?

public class Main {

public static void main(String[] args) {

int x = 10;

System.out.println(x++);

}

}

Question10: END

Option\_a: 10  
Option\_b: 11  
Option\_c: Compile time error  
Option\_d: Runtime error  
correct\_option: 10

Question11: START  
Which of the following is not a keyword in Java?

Question11: END

Option\_a: final  
Option\_b: finally  
Option\_c: finalize  
Option\_d: abstract  
correct\_option: finalize

Question12: START  
What will be the output of the following Java code?

public class Main {

public static void main(String[] args) {

for (int i = 0; i < 5; i++) {

System.out.print(i);

}

}

}

Question12: END

Option\_a: 01234  
Option\_b: 12345  
Option\_c: 012345  
Option\_d: None of the above  
correct\_option: 01234

Question13: START  
Which of the following is used to define a constant in Java?

Question13: END

Option\_a: #include  
Option\_b: final  
Option\_c: #define  
Option\_d: const  
correct\_option: final

Question14: START  
What is the size of a reference variable on a 64-bit JVM?

Question14: END

Option\_a: 4 bytes  
Option\_b: 8 bytes  
Option\_c: 16 bytes  
Option\_d: Depends on the JVM  
correct\_option: 8 bytes

Question15: START  
Which of the following is not a valid escape sequence in Java?

Question15: END

Option\_a: \n  
Option\_b: \t  
Option\_c: \a  
Option\_d: \r  
correct\_option: \a

Question16: START  
In Java, what is the result of the expression 7 / 2?

Question16: END

Option\_a: 3.5  
Option\_b: 4  
Option\_c: 3  
Option\_d: Error  
correct\_option: 3

Question17: START  
Which of the following is the default return type of a method in Java?

Question17: END

Option\_a: int  
Option\_b: float  
Option\_c: void  
Option\_d: None of the above  
correct\_option: None of the above (Methods must explicitly declare return types)

Question18: START  
What is the role of the break statement in a loop in Java?

Question18: END

Option\_a: Skip an iteration  
Option\_b: Exit the loop immediately  
Option\_c: Jump to the next iteration  
Option\_d: Return control to the calling method  
correct\_option: Exit the loop immediately

Question19: START  
Which operator in Java is used to get the memory address of a variable?

Question19: END

Option\_a: \*  
Option\_b: &  
Option\_c: There is no such operator in Java  
Option\_d: &&  
correct\_option: There is no such operator in Java

Question20: START  
What will be the result of the expression true && false in Java?

Question20: END

Option\_a: true  
Option\_b: false  
Option\_c: Compile-time error  
Option\_d: Runtime error  
correct\_option: false

Question21: START  
Which of the following methods is used to dynamically allocate memory in Java?

Question21: END

Option\_a: malloc()  
Option\_b: sizeof()  
Option\_c: System.gc()  
Option\_d: Memory is automatically managed in Java  
correct\_option: Memory is automatically managed in Java

Question22: START  
What will be the output of the following Java code?

public class Main {

public static void main(String[] args) {

int a = 10;

System.out.println(a);

}

}

Question22: END

Option\_a: a  
Option\_b: 10  
Option\_c: Compile time error  
Option\_d: Runtime error  
correct\_option: 10

Question23: START  
Which of the following is the correct way to declare a constant variable in Java?

Question23: END

Option\_a: int const x = 5;  
Option\_b: const int x = 5;  
Option\_c: final int x = 5;  
Option\_d: None of the above  
correct\_option: final int x = 5;

Question24: START  
What is the output of the following code?

public class Main {

public static void main(String[] args) {

int i = 5;

System.out.println(i++);

}

}

Question24: END

Option\_a: 5  
Option\_b: 6  
Option\_c: Compile-time error  
Option\_d: Runtime error  
correct\_option: 5

Question25: START  
Which of the following statements is true about the continue statement in Java?

Question25: END

Option\_a: It skips the rest of the loop iteration  
Option\_b: It exits the loop immediately  
Option\_c: It terminates the program  
Option\_d: None of the above  
correct\_option: It skips the rest of the loop iteration