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**Course: BCA**

**Date: 10-July-2020**

**Subject: Java Programming**

**Subject Code: CSBC 2007**

**No. of Questions: 60**

**Semester: IV**

**Start Time: 2:00 PM**

**Duration: 2 Hours**

### **Instructions for Online End Term Exam**

- Attempt all the questions.
- Backtracking is not allowed.

- 1) Which component is used to compile, debug, and execute a java program?
  - a) JVM
  - b) JDK
  - c) JIT
  - d) JRE
- 2) Which of the below is an invalid identifier with the main method?
  - a) public
  - b) static
  - c) private
  - d) final
- 3) What is the use of an interpreter?
  - a) They convert bytecode to machine language code
  - b) They read high-level code and execute them
  - c) They are intermediated between JIT and JVM
  - d) It is a synonym for JIT
- 4) Which of these is a long data type literal?
  - a) 0x99ffL
  - b) ABCDEFG
  - c) 0x99ffa
  - d) 99671246
- 5) What will be the output of the following Java program?

```
class evaluate { public static void main(String args[]) { int a[] = {1,2,3,4,5}; int d[] = a; int sum = 0; for (int j = 0; j < 3; ++j) sum += (a[j] * d[j + 1]) + (a[j + 1] * d[j]); System.out.println(sum); } }
```

  - a) 38

- b) 39
  - c) 40
  - d) 41
- 6) Which of these operators is used to allocate memory for an object?
- a) malloc
  - b) alloc
  - c) new
  - d) give
- 7) Which of these is an incorrect array declaration?
- a) `int arr[] = new int[5]`
  - b) `int [] arr = new int[5]`
  - c) `int arr[] = new int[5]`
  - d) `int arr[] = int [5] new`
- 8) Which of these keywords is used to define packages in Java?
- a) pkg
  - b) Pkg
  - c) package
  - d) Package
- 9) Which of the following is the correct way of importing an entire package 'pkg'?
- a) `import pkg.`
  - b) `Import pkg.`
  - c) `import pkg.*`
  - d) `Import pkg.*`
- 10) What will be the output of the following Java program? package pkg; class display { int x; void show() { if (x > 1) System.out.print(x + " "); } } class packages { public static void main(String args[]) { display[] arr=new display[3]; for(int i=0;i<3;i++) arr[i]=new display(); arr[0].x = 0; arr[1].x = 1; arr[2].x = 2; for (int i = 0; i < 3; ++i) arr[i].show(); } }  
Note : packages.class file is in directory pkg;
- a) 0
  - b) 1
  - c) 2
  - d) 0 1 2
- 11) What is the use of final keyword in Java?
- a) When a class is made final, a subclass of it cannot be created.
  - b) When a method is final, it cannot be overridden.
  - c) When a variable is final, it can be assigned value only once.
  - d) All of the above
- 12) Output of follwoing Java program. class Main { public static void main(String args[]){ final int i; i = 20; System.out.println(i); } }
- a) 20
  - b) Compiler Error
  - c) 0
  - d) Garbage value

- 13) What is the output of this question? `class Test1 { public static void main(String[] args) { int x = 20; System.out.println(x); } static { int x = 10; System.out.print(x + " "); } }`
- a) 10 20
  - b) 20 10
  - c) 10 10
  - d) 20 20
- 14) What is the order of precedence (highest to lowest) of following operators? 1. & 2. ^ 3. ?:
- a) 1 -> 2 -> 3
  - b) 2 -> 1 -> 3
  - c) 3 -> 2 -> 1
  - d) 2 -> 3 -> 1
- 15) What will be the output of the following Java code? `class operators { public static void main(String args[]) { int x = 8; System.out.println(++x * 3 + " " + x); } }`
- a) 24 8
  - b) 24 9
  - c) 27 8
  - d) 27 9
- 16) Choose the Conditional operators of Java listed below.
- a) >, >=
  - b) <, <=
  - c) ==, !=
  - d) All the above
- 17) What would be the output of the following code snippet if variable a=10? `if(a<=0) { if(a==0) { System.out.println("1 "); } else { System.out.println("2 "); } } System.out.println("3 ");`
- a) 1 2
  - b) 2 3
  - c) 1 3
  - d) 3
- 18) Which of the following is not a valid jump statement?
- a) break
  - b) goto
  - c) continue
  - d) return
- 19) What will be the output of the following Java program? `class selection_statements { public static void main(String args[]) { int var1 = 5; int var2 = 6; if ((var2 = 1) == var1) System.out.print(var2); else System.out.print(++var2); } }`
- a) 1
  - b) 2
  - c) 3
  - d) 4

- 20) What will be the output of the following program? `public class Test { public static void main(String[] args) { for (int i = 0; i < 10; i++) int x = 10; } }`
- a) No Output
  - b) 10
  - c) Compile time error
  - d) 10 (10 times)
- 21) What is the output of the below Java program? `String str="FOX"; int i=0; while(i<str.length()) { System.out.print(str.charAt(i)); i++; }`
- a) FFF
  - b) FOX
  - c) Compiler error
  - d) None
- 22) What is the output of the below Java program with WHILE, BREAK and CONTINUE? `int cnt=0; while(true) { if(cnt > 4) break; if(cnt==0) { cnt++; continue; } System.out.print(cnt + ","); cnt++; }`
- a) 0,1,2,3,4,
  - b) 1,2,3,4,
  - c) 1,2,3,4
  - d) Compiler error
- 23) Which of the following for loops will be an infinite loop?
- a) `for( ; )`
  - b) `for(i=0 ; i<1; i--)`
  - c) `for(i=0; ; i++)`
  - d) All of the above
- 24) What will be the output of the following Java code? `class array_output { public static void main(String args[]) { int array_variable [] = new int[10]; for (int i = 0; i < 10; ++i) { array_variable[i] = i; System.out.print(array_variable[i] + " "); i++; } } }`
- a) 0 2 4 6 8
  - b) 1 3 5 7 9
  - c) 0 1 2 3 4 5 6 7 8 9
  - d) 1 2 3 4 5 6 7 8 9 10
- 25) What will be the output of the following Java code? `class multidimension_array { public static void main(String args[]) { int arr[][] = new int[3][3]; arr[0] = new int[1]; arr[1] = new int[2]; arr[2] = new int[3]; int sum = 0; for (int i = 0; i < 3; ++i) for (int j = 0; j < i + 1; ++j) arr[i][j] = j + 1; for (int i = 0; i < 3; ++i) for (int j = 0; j < i + 1; ++j) sum += arr[i][j]; System.out.print(sum); } }`
- a) 11
  - b) 10
  - c) 13
  - d) 14
- 26) What will be the output of the following program? `public class MyFirst { public static void main(String[] args) { MyFirst obj = new MyFirst(n); } static int a = 10; static int n; int b = 5; int c; public MyFirst(int m) { System.out.println(a + ", " + b + ", " + c + ", " + n + ", " + m); } // Instance Block { b = 30; n = 20; } // Static Block static { a = 60; } }`

- a) 10, 5, 0, 20, 0
- b) 10, 30, 20
- c) 60, 5, 0, 20
- d) 60, 30, 0, 20, 0

27) What is the output of the following program? `public class Test { public int getData() //getdata() 1 { return 0; } public long getData() //getdata 2 { return 1; } public static void main(String[] args) { Test obj = new Test(); System.out.println(obj.getData()); } }`

- a) 1
- b) 0
- c) Runtime error
- d) Compilation error

28) What is the output of the following program? `class Derived { public void getDetails(String temp) { System.out.println("Derived class " + temp); } } public class Test extends Derived public int getDetails(String temp) { System.out.println("Test class " + temp); return 0; } public static void main(String[] args) { Test obj = new Test(); obj.getDetails("GFG"); } }`

- a) Derived class GFG
- b) Test class GFG
- c) Compilation error
- d) Runtime error

29) What will be the output of the following Java program? `class A { int i; void display() { System.out.println(i); } } class B extends A { int j; void display() { System.out.println(j); } } class inheritance_demo { public static void main(String args[]) { B obj = new B(); obj.i=1; obj.j=2; obj.display(); } }`

- a) 0
- b) 1
- c) 2
- d) Compilation Error

30) Which inheritance in java programming is not supported

- a) Multiple inheritance using classes
- b) Multiple inheritance using interfaces
- c) Multilevel inheritance
- d) Single inheritance

31) What will be the output of the following Java code? `class A { public int i; private int j; } class B extends A { void display() { super.j = super.i + 1; System.out.println(super.i + " " + super.j); } } class inheritance { public static void main(String args[]) { B obj = new B(); obj.i=1; obj.j=2; obj.display(); } }`

- a) 2 2
- b) 3 3
- c) Runtime Error
- d) Compilation Error

32) What will be the output of the following Java code? `class A { public int i; public int j; A() { i = 1; j = 2; } } class B extends A { int a; B() { super(); } } class super_use { public`

```
static void main(String args[]) { B obj = new B(); System.out.println(obj.i + " " + obj.j); }  
}
```

- a) 1 2
  - b) 2 1
  - c) Runtime Error
  - d) Compilation Error
- 33) Which of these keywords are used to define an abstract class?
- a) abst
  - b) abstract
  - c) Abstract
  - d) abstract class
- 34) If a class inheriting an abstract class does not define all of its functions, then it will be known as?
- a) abstract
  - b) A simple class
  - c) static class
  - d) None of the mentioned
- 35) Which of these is not a correct statement?
- a) Every class containing abstract method must be declared abstract
  - b) An abstract class defines only the structure of the class not its implementation
  - c) Abstract class can be initiated by a new operator
  - d) An abstract class can be inherited
- 36) Which of these keywords is used to define interfaces in Java?
- a) interface
  - b) Interface
  - c) intf
  - d) Intf
- 37) Which of these access specifiers can be used for an interface?
- a) public
  - b) protected
  - c) private
  - d) All of the mentioned
- 38) Which of these keywords is used by a class to use an interface defined previously?
- a) import
  - b) Import
  - c) implements
  - d) Implements
- 39) What will be the output of the following Java program? interface calculate { void cal(int item); } class displayA implements calculate { int x; public void cal(int item) { x = item \* item; } } class displayB implements calculate { int x; public void cal(int item) { x = item / item; } } class interfaces { public static void main(String args[]) { displayA arr1 = new displayA; displayB arr2 = new displayB; arr1.x = 0; arr2.x = 0; arr1.cal(2); arr2.cal(2); System.out.print(arr1.x + " " + arr2.x); } }

- a) 0 0
- b) 2 2
- c) 4 1
- d) 1 4

40) Which of the following statement(s) with regard to an abstract class in JAVA is/are TRUE? I. An abstract class is one that is not used to create objects. II. An abstract class is designed only to act as a base class to be inherited by other classes.

- a) Only I
- b) Only II
- c) Neither I nor II
- d) Both I and II

41) When Overloading does not occur?

- a) More than one method with the same name but different method signature and different number or type of parameters
- b) More than one method with the same name, same signature but different number of signature
- c) More than one method with the same name, same signature, the same number of parameters but a different type
- d) More than one method with the same name, the same number of parameters and type but a different signature

42) Which of the following is not the OOPS concept in Java?

- a) Inheritance
- b) Encapsulation
- c) Polymorphism
- d) Compilation

43) Which of these classes is a superclass of String and StringBuffer class?

- a) java.util
- b) java.lang
- c) ArrayList
- d) None of the mentioned

44) Which of this method of class String is used to extract a single character from a String object?

- a) CHARAT()
- b) chatat()
- c) charAt()
- d) ChatAt()

45) What will be the output of the following Java program? 

```
class String_demo { public static void main(String args[]) { int ascii[] = { 65, 66, 67, 68}; String s = new String(ascii, 1, 3); System.out.println(s); } }
```

- a) ABC
- b) BCD
- c) CDA
- d) ABCD

- 46) What will be the output of the following Java program? `class String_demo { public static void main(String args[]) { char chars[] = {'a', 'b', 'c'}; String s = new String(chars); String s1 = "abcd"; int len1 = s1.length(); int len2 = s.length(); System.out.println(len1 + " " + len2); } }`
- a) 3 0
  - b) 0 3
  - c) 3 4
  - d) 4 3
- 47) Which of these keywords is used to refer to a member of the base class from a subclass?
- a) upper
  - b) super
  - c) this
  - d) none of the mentioned
- 48) Which of these methods of String class can be used to test to strings for equality?
- a) isequal()
  - b) isequals()
  - c) equal()
  - d) equals()
- 49) What will be the output of the following Java code? `class output { public static void main(String args[]) { StringBuffer sb=new StringBuffer("Hello"); sb.replace(1,3,"Java"); System.out.println(sb); } }`
- a) Hello java
  - b) Hellojava
  - c) HJavallo
  - d) Hjava
- 50) Which of these methods of class StringBuffer is used to extract a substring from a String object?
- a) substring()
  - b) Substring()
  - c) SubString()
  - d) None of the mentioned
- 51) When does Exceptions in Java arises in code sequence?
- a) Run Time
  - b) Compilation Time
  - c) Can Occur Any Time
  - d) None of the mentioned
- 52) Which of these keywords must be used to monitor for exceptions?
- a) try
  - b) finally
  - c) throw
  - d) catch
- 53) Which of these keywords is used to manually throw an exception?
- a) try



- b) finally
- c) throw
- d) catch

54) What will be the output of the following Java program? `class exception_handling { public static void main(String args[]) { try { int a, b; b = 0; a = 5 / b; System.out.print("A"); } catch(ArithmeticException e) { System.out.print("B"); } finally { System.out.print("C"); } } }`

- a) A
- b) B
- c) AC
- d) BC

55) Which of these keywords is not a part of exception handling?

- a) Try
- b) Finally
- c) Thrown
- d) catch

56) 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"); } } }`

- a) Hello
- b) World
- c) HelloWorld
- d) Hello World

57) Which of the following are not a wrapper class?

- a) Integer
- b) Boolean
- c) Double
- d) String

58) Which of the following is correct way of implementing an interface salary by class manager?

- a) `class manager extends salary { }`
- b) `class manager implements salary { }`
- c) `class manager imports salary { }`
- d) None of the mentioned.

59) Which operator will always evaluate all the Operands?

- a) `||`
- b) `&&`
- c) `?:`
- d) `%`

60) What will be the output of the following Java program? `class A { int i; void display() { System.out.println(i); } } class B extends A { int j; void display() { System.out.println(j); } } class inheritance_demo { public static void main(String args[]) { B obj = new B(); obj.i=1; obj.j=2; obj.display(); } }`

- a) 0
- b) 1
- c) 2
- d) Compilation Error