

## DEMO MIDTERM EXAMINATION

Full marks 30

**Answer any 15 questions (each question carry 2 marks):**

1. What is byte code in Java?

- (a) Code generated by a Java compiler
- (b) Code generated by a Java Virtual Machine
- (c) Name of Java source code file
- (d) Block of code written inside a class

2. Modulus operator, %, can be applied to which of these?

- a) Integers
- b) Floating point numbers
- c) Both Integers and floating point numbers
- d) None of the mentioned

3. Decrement operator, --, decreases the value of variable by what number?

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

4. What will be the output of the following Java program

```
class increment
{
    public static void main(String args[])
    {
        double var1 = 1 + 5;
        double var2 = var1 / 4;
        int var3 = 1 + 5;
        int var4 = var3 / 4;
        System.out.print(var2 + " " + var4);
    }
}
```

```
}
```

```
}
```

- a) 1 1            b) 0 1            c) 1.5 1            d) 1.5 1.0

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

```
class Modulus
```

```
{
```

```
    public static void main(String args[])
```

```
    {
```

```
        double a = 25.64;
```

```
        int b = 25;
```

```
        a = a % 10;
```

```
        b = b % 10;
```

```
        System.out.println(a + " " + b);
```

```
    }
```

```
}
```

- a) 5.6400000000000001 5                      b) 5.6400000000000001 5.0  
c) 5 5    d) 5 5.6400000000000001

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

```
class increment
```

```
{
```

```
    public static void main(String args[])
```

```
    {
```

```
        int g = 3;
```

```
        System.out.print(++g * 8);
```

```
    }
```

```
}
```

- a) 25            b) 24            c) 32            d) 33

7. Which of these are selection statements in Java?

- a) if ()                      b) for ()                      c) continue                      d) break

8. 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

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

```
class comma_operator
{
    public static void main(String args[])
    {
        int sum = 0;
        for (int i = 0, j = 0; i < 5 & j < 5; ++i, j = i + 1)
            sum += i;
        System.out.println(sum);
    }
}
```

```
}
```

- a) 5              b) 6              c) 14              d) compilation error

10. Which of the following for loop declaration is not valid?

- (a) for ( int i = 99; i >= 0; i / 9 )  
(b) for ( int i = 7; i <= 77; i += 7 )  
(c) for ( int i = 20; i >= 2; - -i )  
(d) for ( int i = 2; i <= 20; i = 2\* i )

11. Which keyword is used for accessing the features of a package?

- (a) package              (b) import              (c) extends              (d) export

12. Which of the following are not Java keywords?

- (a) double    (b) switch    (c) then    (d) instanceof

13. Which of these is not a bitwise operator?

- a) &              b) &=              c) |=              d) <=

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

```
class bitwise_operator
{
    public static void main(String args[])
    {
        int var1 = 42;
        int var2 = ~var1;
        System.out.print(var1 + " " + var2);
    }
}
```

a) 42 42    b) 43 43    c) 42 -43    d) 42 43

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

```
class bitwise_operator
{
    public static void main(String args[])
    {
        int a = 3;
        int b = 6;
        int c = a | b;
        int d = a & b;
        System.out.println(c + " " + d);
    }
}
```

a) 7 2    b) 7 7    c) 7 5    d) 5 2

16. Which of these have highest precedence?

a) ()    b) ++    c) \*    d) >>

17. Which of the following is used with the switch statement?

a) Continue    b) Exit    c) break    d) do

18. Which of the following is not a decision making statement?

a) if    b) if-else    c) switch    d) do-while