

Name

Class

Date

1. ++ increases the value of a variable by 1

- | | |
|------------------------|-----------------------|
| a) assignment operator | b) decrement operator |
| c) increment operator | d) sentinel |

2. What would the new value of A be?

```
A=1;
```

```
a++;
```

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

3. What's the value of below?

```
int i=5;
```

```
System.out.println(i++);
```

```
System.out.println(i);
```

```
System.out.println(++i);
```

- | | |
|------|------|
| a) 5 | b) 5 |
| 5 | 6 |
| 6 | 7 |
| c) 6 | d) 6 |
| 6 | 7 |
| 7 | 8 |

4. Which statement(s) are equivalent to $i = i + 1$?

- | | |
|-------------|-------------|
| a) $i -= 1$ | b) $i += 1$ |
| c) $i--$ | d) $i++$ |

5. Which are the types of operators seen? Select as many you think
- a) subtraction operator
 - b) equality operator
 - c) arithmetic operator
 - d) bitwise operator
6. what is modulo operation used for ?
- a) performs division and gives no remainder
 - b) performs division
 - c) performs division and gives remainder
 - d) does not perform division
7. arithmetic operators return a value. True or false?
- a) true
 - b) false
8. conditional operators does not return a value
- a) true
 - b) false
9. which data types work on bitwise operators?
- a) int
 - b) double
 - c) byte
 - d) char
10. which type of operator it is? $i += 5$
- a) equality operator
 - b) addition assignment operator
 - c) conditional operator
 - d) arithmetic operator

11. Find the output for the following.

```
public class IncDec
{
    public static void main(String s[])
    {
        int a = 1;
        int b = 2;
        int c;
        int d;

        c = ++b;
        d = a++;

        c++;

        System.out.println("a = " + a);
        System.out.print("b = " + b);
        System.out.println("c = " + c);
        System.out.print("d = " + d);
    }
}
```

- | | |
|------------------------------|----------------------------|
| a) Program does not compile. | b) a = 2 b = 3 c = 4 d = 1 |
| c) a = 2 b = 3 c = 4 d = 1 | d) a = 1 b = 2 c = 4 d = 2 |

12. What will be the output of the program?

```
class Test
{
    public static void main(String [] args)
    {
        int x=20;
        String sup = (x < 15) ? "small" : (x < 22)? "tiny" : "huge";
        System.out.println(sup);
    }
}
```

- | | |
|----------------------|----------|
| a) Compilation fails | b) small |
| c) huge | d) tiny |

13. Find the output of the following snippet.

```
class Numbers
{
public static void main(String args[])
{
int a=20, b=10;
if((a<b)&&(b++ <25))
{
System.out.println("this is any language logic");
}
System.out.println(b);
}
}
```

a) 10

b) Compilation Error

c) 11

d) 12

```
void Print()
{
    int a=10,b=20;
    if(a=b)
    {
        System.out.println(a);
    }
    else
        System.out.println(b);
}
```

14.

Please write correct output in following space-

a) 10

b) 20

c) No Output

d) Error

15. Which operation will double the value of a number Eg: if $n=4$ then which operation will make $n=8$

a) n^2

b) $n \gg 2$

c) $n * 2$

d) $n \ll 2$

Answer Keys

- | | | |
|-------------------------------------|--|---------------------------------------|
| 1. c) increment operator | 2. a) 1 | 3. b) 5 6 7 |
| 4. b) $i += 1$, d) $i++$ | 5. b) equality , arithmetic operator c) operator d) $a \% b$ gives remainder | 6. c) a / b gives division operator |
| 7. a) true | 8. b) false | 9. c) byte , char , int
d) a) |
| 10. b) addition assignment operator | 11. b) $a = 2$ $b = 3$ $c = 4$
$d = 1$ | 12. d) tiny |
| 13. a) 10 | 14. d) Error | 15. c) $n * 2$, d) $n << 2$ |

