1.

```
Which of the following statements declares a valid null reference?

Please select 1 option

String str: null;

Object obj = NULL;

Date d(null);

File f = null;
```

2.

```
Consider the following program:

class Test
{
    public static void main(String[] args)
    {
        short s = 10; // 1
        char c = s; // 2
        s = c; // 3
    }
}
Identify the correct statements.

See Hint

Please select 2 options

Line 3 is not valid.

Line 2 is not valid.

It will compile because both short and char can hold 10.

None of the lines 1, 2 and 3 is valid.
```

3.

```
Which of the following statements can be inserted successfully at // 1?
public class InitTest
{
    static int si = 10;
    int i;
    final boolean bool;
    // 1
}
```

```
Please select 1 option

O instance { bool = true; }

O InitTest() { si += 10; }

O void InitTest() { si = 5; i = bool ? 1000 : 2000;}

O { i = 1000; }

InitTest() { si += 10; }

InitTest(boolean flag) { bool = flag; }

O None of the above.
```

4.

| Which integral types in Java have a range of 2^16 integers? OR |
|--|
| Which integral types in Java can represent exactly 2^16 distinct integers? |
| Please select 2 options |
| □ char |
| □ int |
| |
| short |
| 5. |
| Given the following LOCs: |
| <pre>int i = 0; char ch = 'a';</pre> |
| Which of the following will put correct integer value of the char variable ch into the int variable i? |
| Please select 3 options |
| i = ch ; |
| i = (int) ch; |
| □ i << ch ; |
| □ i <<< ch |
| i += ch; |
| ☐ i := ch; |
| |
| 6. |
| You are developing a class that represents a Book. Which data type will you use for storing the ISBN number, which is an alphanumeric number, of the book? |
| Please select 1 option |
| ○ int |
| O char |
| O String |
| O None of these. |
| 7. |
| Which of the following statements are true? |
| Please select 2 options |
| ☐ System.out.println(1 + 2 + "3"); would print 33. |
| System.out.println("1" + 2 + 3); would print 15. |
| System.out.println(4 + 1.0f); would print 5.0 |
| System.out.println(5/4); would print 1.25 |
| System.out.println('a' + 1); would print b. |

8.

| In which of these variable declarations, will the variable remain uninitialized unless explicitly initialized? |
|--|
| Please select 1 option |
| O Declaration of an instance variable of type int. |
| O Declaration of a static class variable of type float. |
| O Declaration of a local variable of type float. |
| O Declaration of a static class variable of class Object |
| O Declaration of an instance variable of class Object. |

9.

```
What will be the result of attempting to compile and run the following code?

public class PromotionTest
{
    public static void main(String args[])
    {
        int i = 5;
        float f = 5.5f;
        double d = 3.8;
        char c = 'a';
        if (i == f) c++;
        if (((int) (f + d)) == ((int) f + (int) d)) c += 2;
        System.out.println(c);
    }
}
```

```
Please select 1 option

The code will fail to compile.

It will print d.

It will print c.

It will print b

It will print a.
```

10.

```
Given:
String str = "hello\r\n" + "world";
System.out.println(str.length);
Please select 1 option
```

○ 12

O 13

O 14

 \bigcirc Compilation error

O Exception at run time