PPWJ QUIZ 3 (MCA)

Programming Projects With Java (CA3216) Qiuz 3

* Indicates required question

1. Email *

2. Name *

3. Registration Number *

4. Section *

Mark only one oval.

- B1
- B2

5. What will happen if the main method is declared as * 1 point
public static void main()

Mark only one oval.

- Compilation error
- Runtime error: NoSuchMethodError
- Program runs normally
- JVM automatically supplies String[] args

6. What is the output? * 1 point

Program:

```
class Test {
    public static void main(String[] args) {
        System.out.println(args.length);
    }
}
```

Command-line:

```
java Test "A B C"
```

Mark only one oval.

- 1
- 3
- 0
- Compilation error

7. What will be the output of the following? * 1 point

```
class Test {
    public static void main(String[] args) {
        main("Hello");
    }

    public static void main(String arg) {
        System.out.print(arg);
    }
}
```

Mark only one oval.

- Compilation error
- Runtime error
- Prints: Hello
- Infinite recursion

8. Find Output * 1 point

```
int x = 10;
int y = (x > 10) ? x++ : ++x;
System.out.println(x + " " + y);
```

Mark only one oval.

- 10 10
- 11 11
- 11 12
- 12 11

9. Find Output * 1 point

```
System.out.println(10 - 3 + 2 * 5 % 3);
```

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10. Find Output * 1 point

```
int i = 0;
while (i < 5) {
    System.out.print(i);
    i = i++ + 1;
}
```

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11. Find Output * 1 point

```
int sum = 0;
for (int i = 1; i <= 5; i++) {
    if (i % 2 == 0)
        continue;
    if (i == 3)
        break;
    sum += i;
}
System.out.println(sum);
```

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12. Find Output * 1 point

```
int i = 0;
while (i < 5) {
    System.out.println(i);
    i = i++;
}
```

Mark only one oval.

- ◯ Runs 0 to 4
- ◯ Runs once
- ◯ Infinite loop
- ◯ Compilation error

13. Find Output * 1 point

```
int[] arr = {10, 20, 30, 40};
for (int i = 0, j = arr.length - 1; i < j; i++, j--) {
    int temp = arr[i];
    arr[i] = arr[j];
    arr[j] = temp;
}
System.out.println(arr[1]);
```

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14. Find Output * 1 point

```
int[][] arr = {
    {1, 2},
    {3, 4, 5},
    {6}
};
System.out.println(arr[1].length + arr[2][0]);
```

15. Find Output * 1 point

```
int[] arr = {1, 2, 3, 4, 5};
int left = 0, right = arr.length - 1;
while (left < right) {
    int mid = (left + right) / 2;
    if (arr[mid] % 2 == 0) right = mid;
    else left = mid + 1;
}
System.out.println(arr[left]);
```

16. Find output * 1 point

```
int[] a = {8, 6, 7, 5, 3, 0, 9};
for (int i = 0; i < a.length - 1; i++) {
    a[i] = a[i+1] - a[i];
}
System.out.println(a[4]);
```

17. Find Output * 1 point

```
String s1 = "hello";
String s2 = "he" + "llo";
System.out.println(s1 == s2);
```

Mark only one oval.

- ◯ True
- ◯ False

18. Find Output * 1 point

```
String s = "level";
System.out.println(s.substring(1, 3));
```

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19. Find Output * 1 point

```
String s1 = "hello";
String s2 = new String("hello");
String s3 = s2.intern();
System.out.println((s1 == s2) + " " + (s1 == s3));
```

Mark only one oval.

- ◯ true true
- ◯ true false
- ◯ false true
- ◯ false false

20. Find Output * 1 point

```
String x = "abc";
String y = "ab";
y += "c";
System.out.println(x == y);
```

Mark only one oval.

- true
- false

21. Find output * 1 point

```
int[] a = {4, 2, 9};
int min = 0;
for(int j = 1; j < a.length; j++){
    if(a[j] < a[min])
        min = j;
}
System.out.println(min);
```

22. Which keyword is used to define a method in Java? * 1 point

Mark only one oval.

- function
- method
- def
- None of the above

23. What is the default return type of a method if not specified? * 1 point

Mark only one oval.

- void
- int
- double
- No default

24. **What is method overloading?** * 1 point

Mark only one oval.

- Two methods with same name & different parameters
- Two methods with same body
- Two methods with same return type
- Two methods with different class names

25. Find Output * 1 point

```
static void show(int a, double b) {
    System.out.println("int double");
}
static void show(double a, int b) {
    System.out.println("double int");
}
public static void main(String[] args) {
    show(5, 5);
}
```

Mark only one oval.

- Ambiguous call
- Compilation error
- No such method
- none of the above

26. **Which conversion is automatic?** * 1 point

Mark only one oval.

- int → float
- double → int
- long → int
- float → int

27. Find Output * 1 point

```
System.out.println(10 + 20 + "30");
```

28. Which of the following is TRUE for Java strings? * 1 point

Mark only one oval.

- Strings are immutable
- == compares string content
- Strings are stored on stack

29. Which loop executes at least once? * 1 point

Mark only one oval.

- for
- while
- do-while
- enhanced for

30. Find Output * 1 point

```
int[] arr = {1, 2, 3, 4};
for(int x : arr) {
    x = x * 2;
}
System.out.println(arr[0]);
```

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31. **Which is TRUE about string pool?** * 1 point

Mark only one oval.

- Only new String() strings are in the pool
- String literals are automatically added to the pool
- String pool is mutable
- == checks string content in pool

32. Can the main method be overloaded? * 1 point

Mark only one oval.

- ◯ Yes, multiple main methods with different parameters are allowed
- ◯ No, only one main method is allowed
- ◯ Yes, but return type must be same
- ◯ No, JVM does not allow it

33. int x = 10; * 1 point
float y = x;
System.out.println(y);

Mark only one oval.

- ◯ 10
- ◯ 10.0
- ◯ 10.00f
- ◯ Compilation error

34. Find output * 1 point
int x = 123;
String s = "" + x;
x = Integer.parseInt(s);
System.out.println(x);

Mark only one oval.

- ◯ 123
- ◯ NumberFormatException

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