



ABV – Indian Institute of Information Technology and Management, Gwalior

## Mobile Application Technology – Minor

2<sup>nd</sup> March 2024, Saturday

Max Marks – 30

### Instructions:

1. All questions are compulsory.
2. No doubts will be entertained during the exam duration.
3. In case of multiple seemingly correct options (in Section A), choose the most appropriate one.
4. Mark all answers for Section A on the first page of your answer sheets.

### Section A – 1 mark each

1. Write the name of the android version which is not based on sweets.
2. What is the full form of SDK?
3. What is the primary purpose of the 'findViewById' method in Android development?
  - a. Find a view by its identifier
  - b. Find a view by its class
  - c. Find a view by its name
  - d. Find a view by its tag
4. What is the function of an Intent in Android?
  - a. To display a message
  - b. To perform background tasks
  - c. To navigate between activities or apps
  - d. To store data in a database
5. What is the purpose of the 'main' method in a Java program?
  - a. It is the starting point of the program.
  - b. It handles exceptions.
  - c. It defines the main variables.
  - d. It is used for memory allocation.
6. How is method overloading different from method overriding in Java?
  - a. Overloaded methods have the same method signature, overridden methods have different signatures
  - b. Overloaded methods have different method names, overridden methods have the same name
  - c. Method overloading is static, method overriding is dynamic
  - d. Method overloading involves changing the return type, method overriding does not
7. When is method overloading determined?
  - a. At run time
  - b. At compile time
  - c. At coding time
  - d. At execution time

```
class variable_scope
{
    public static void main(String args[])
    {
        int x;
        x = 5;
        {
            int y = 6;
            System.out.print(x + " " + y);
        }
        System.out.println(x + " " + y);
    }
}
```

Figure 1.

```
class Base {
    public void show() {
        System.out.println("Base::show() called");
    }
}

class Derived extends Base {
    public void show() {
        System.out.println("Derived::show() called");
    }
}

public class Main {
    public static void main(String[] args) {
        Base b = new Derived();
        b.show();
    }
}
```

Figure 2.

8. What will be the output of the following Java program as shown in Figure 1?
  - a. Compilation error
  - b. 5 6
  - c. 5 6 5 6

- b. Runtime error
- d. 5 6 5
9. Output of following Java Program as shown in Figure 2?
- a. Derived::show() called
- c. Base::show() called
- b. Run-time error
- d. Compile-time error
- 10 Which of the following is true about inheritance in Java?
- [1] Private methods are final.
- [2] Protected members are accessible within a package and inherited classes outside the package.
- [3] Protected methods are final.
- [4] We cannot override private methods.
- a. 1, 2 and 4
- c. 1, 2 and 3
- b. 1 and 2
- d. 2, 3 and 4