Name: **SAP ID:**

PS: Write the answer in the question paper itself. If space is not sufficient then use backside of paper to answer and mention question number.

Q1) *What is the error in the below code snippet?*

```
public class HelloWorldApp(
    public function void static main{String args[]} {
        System.out.println("Hello World!"); // Prints the string to the console.
    }
)
```

    Ans:

Q2) What is the compulsory method of a Stand-Alone Java program and Write code snippet ?.

    Ans:

Q3) Write java method to add 0's before a number so that every number is displayed as 6 digits long.

    Example when 45 is passed as parameter method display as 000045

    Ans:

Q4) Objects in JAVA are created from templates called as _____.

    Ans:

Q5) In the code snippet below, what is the difference between "Speed" and "speed"

System.out.println("Speed: "+speed);

    Ans:

Q6) What is the o/p of the below code snippet.

System.out.println("score =" + (6 + 4 / 2));

    Ans:

Q7) Which class in the java.util package help you split the date 23/02/2023 into three individual strings.

str1 = "data"; str2 = str1; str3= new String(str1).

What is the o/p of System.out.println(str1 == str2); and System.out.println(str1 == str3); and System.out.println(str1.equals(str3));

Ans:

Q8) compute the below method doMath and give the output when called.

```
public void doMath() {
float x = 18;
float y = 10;
int z = (int)(x / y);
switch (z) {
        case 1: x = x + 1;
        case 2: x = x + 2;
        default: x = x + 3;
}
System.out.println("Value of x:"+ x++); }
}
```

Ans:

Q9) Method overloading is allowed in JAVA, yet complier throws error on below methods of a class

```
int myobj1(float  var1, int var2, float var3)  { … }
float myobj1(float  var1, int var2, float var3)  { … }
```

Ans:

Q10) Study the below code and choose the correct answer:

```
package org.db.appsmart;
public class Information {
        public int staff = 250;
        protected float PCSAT = 6.8;
        string projectcode = "appSMART RTB";  }

public class MoreInformation extends Information { public int applications = 99; }
package org.db.appsmart.bangalore;
import org.db.appsmart.*;
public class EvenMoreInformation extends MoreInformation {
        public int applications = 150;

        EvenMoreInformation() {
        super()
        int val1 = staff ;
        fload val2 = PCSAT ;
```

```
        string val3 = projectcode ;
    }}
```

Which instance variables are visible in the EvenMoreInformation class? (Tick the answer)
1. staff, PCSAT, projectcode, applications.
2. staff, projectcode, applications
3. staff, PCSAT,projectcode
4. applications

Q11) What will be the output of the below code snippet.

```
import java.util.Random;
class HelloWorld {
   public static void main(String[] args) {
      Random random = new Random();
      random.ints().limit(4).forEach(System.out::println);    }}
```

Ans:

Q12) What is the output of below ?

```
int i = 3, total = 10;
while (i >0) {
      total = total – i;
      i--;
}
System.out.println("Total:"+total);
```

Ans:

Q13) What are the key components of Spring Boot framework?

Ans:

Q14) What is the output of the below code snippet.

```
public class myproject2023 {

public static int getAppSMART(String text){ return text.split("[\n|\r]").length; }
public static void main(String[] args){
      String str = "appSMART\nRTB\nBangalore\rIndia";
      System.out.println(str);
      int count = getAppSMART(str);
      System.out.println("line count: "+count);
   }
}
```

Ans: