



ST. JOSEPH'S COLLEGE, PRAYAGRAJ

FIRST UNIT TEST 2025-26

COMPUTER APPLICATION

CLASS – X

IME: 1 Hour

MM: 30

This paper is divided into two Sections. Attempt all questions from Section A and Section B.

The intended marks for questions or parts of questions are given in brackets [].

SECTION – A

(Attempt all questions from this Section.)

Question 1. Choose the correct answer and write the correct option.

[6]

- i. What is the correct way to create an object of a class named Car in Java?
a) Car myCar = new Car; b) Car myCar = new Car();
c) Car myCar = Car(); d) Car myCar = new Car;
- ii. What does an object represent in Java?
a) A blueprint of a class b) A static method
c) An instance of a class d) A variable declaration
- iii. Which of the following is a valid conditional statement in Java?
a) if (x = 5) b) if (x == 5)
c) if x == 5 d) if [x == 5]
- iv. The output of System.out.println(Math.max(-7, Math.min(-5, -4))); is
a) -5 b) -4
c) -7 d) error
- v. `int i = 0; while (i < 3){ System.out.print(i + " "); i++; }`
a) 0 1 2 b) 123
c) 0 1 d) 012
- vi. Assertion (A): do-while loop in Java executes at least once, even if the condition is false.
Reason (R): The condition in a do-while loop is checked after the loop body is executed.
a) Both A and R are true, and R is the correct explanation of A. b) Both A and R are true, but R is not the correct explanation of A.
c) A is false, but R is true. d) A is true, but R is false.
- vii. Which operator is used to check equality in an if statement?
(a) = (b) ==
(c) != (d) <>
- viii. Which of the following is a primitive data type in Java?
(a) String (b) int
(c) array (d) class
- ix. Which of the following data types is *NOT* supported by a switch statement in Java?
(a) char (b) int
(c) double (d) none of the above
- x. Which of the following is user defined data type?
1. array 2. double 3. class 4. boolean
(a) only 1 (b) 1 and 3
(c) only 2 (d) only 4
- xi. Which of the following Java code snippets correctly prints the string *He said, "It's Java!"* including the quotation marks?
(a) `System.out.println("He said, "It's Java!");` (b) `System.out.println("He said, \"It's Java!\");`
(c) `System.out.println("He said, \\It's Java!\");` (d) `System.out.println("He said, \\It's Java!\");`
- xii. Rearrange the following Java code snippets to form a valid method that prints the square of numbers from 1 to 5 using a for loop.
1. `for(int i = 1; i <= 5; i++) {`
2. `System.out.println(i + " squared is " + (i * i));`
3. `}`
4. `public static void printSquares() {`
(a) 3, 1, 2, 4 (b) 1, 2, 3, 4
(c) 4, 1, 2, 3 (c) 4, 2, 3, 1



Question 2: Short answer type questions

- i. Define a class in Java. Explain its purpose with an example. [1]
- ii. Explain the working of an if-else statement in Java. What is nested if else? [1]
- iii. Differentiate between implicit and explicit type casting in java. [1]
- iv. Discuss the concept of inheritance and polymorphism in Java. How do these support code reusability and flexibility? [1]
- v. Differentiate between == and = in Java. In what situations should each be use. [1]
- vi. What do you mean by *exit controlled loop*? Explain with an example [1]

SECTION - B

(Attempt All three questions from this Section)

Question 3: Write a program in Java, using the Scanner methods, to read and display the following details. Compute and display the percentage of marks. [6]

Name - as a String data type

Roll Number - as an integer data type

Marks in 5 subjects - as a float data type

Question 4: Write a menu driven class to accept a number from the user and check whether it is Palindrome or a Perfect number. [6]

Palindrome number: A number is a Palindrome which when read in reverse order is same as read in the right order
Example: 11, 101, 151, etc.

Perfect number: A number is called Perfect if it is equal to the sum of its factors other than the number itself. Example: $6 = 1 + 2 + 3$

Question 5. Write a program in Java to display the following patterns. [6]

```
1 2 3 4 5
2 3 4 5
3 4 5
4 5
5
4 5
3 4 5
2 3 4 5
1 2 3 4 5
```

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experience
with
programming
shapes how
you see it
forever”**

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