



ST. JOSEPH'S COLLEGE, PRAYAGRAJ

FIRST UNIT TEST 2025-26

COMPUTER APPLICATIONS

CLASS – IX

TIME: 1 Hour

MM: 30

SECTION – A

(Attempt all questions from this Section)

Q 1) Choose the correct answer and write the correct option.

[6]

i. Which keyword is used to create a new object in Java?

- a) create b) new c) instance d) object

ii. What is the extension of java code files?

- a) .js b) .txt c) .class d) .java

iii. Which of the following is not an OOPs concept in Java?

- a) Polymorphism b) Inheritance c) Compilation d) Encapsulation

iv. Assertion (A): A Java program must have a main method to execute.

Reason (R): The main method is the entry point where the Java Virtual Machine (JVM) starts program execution.

- 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) Both A and R are false.

v. In a restaurant, a chef can prepare different types of dishes, such as pizza, pasta, or salad, using the same "cook" instruction. Each dish is prepared differently, but the instruction "cook" works for all of them. In Java, which OOP concept allows a single method name to perform different actions based on the type of object?

- a) Polymorphism b) Abstraction c) Inheritance d) Encapsulation

vi. A student creates a Java program for a game and compiles it. The compiled program can run on any computer with a Java Virtual Machine (JVM). What is the name of the compiled output that allows this portability?

- a) Source code b) Machine code c) Byte code d) Object code

Q 2) Short answer questions:

1. Define source code.

[1]

2. Write any two differences between High and Low level language

[1]

3. Explain the statement "Java program is compiled as well as interpreted"

[1]

4. Write a brief note on BlueJ.

[1]

5. Discuss any one disadvantage of Java programming language

[1]

6. Explain Abstraction with an example

[1]

SECTION – B

(Attempt All three questions from this Section)

Q 3) Write a program in Java to assign the value of u, a and t, compute the final velocity of a vehicle using the following formula: $v = u + at$ where, u = initial velocity, a = acceleration and t = time.

[6]

Q 4) Write a program to assign roll number, name and 3 subject marks to corresponding variables. Calculate total of 3 subject marks and average. Print all details with proper message.

[6]

Q 5) Write a program in Java to assign radius of a circle. Calculate and print the area and circumference of a circle with proper message.

[6]

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