



St. Mary's Convent Inter College, Prayagraj

Second Unit Assessment 2024-25

Class-9

Time: 1 hr

Computer Applications

M.M.:30

Name:

Roll No.:

Date:

Q1. ANSWER THE FOLLOWING

[5x2]

- Write the significance of break statement in switch case.
What happens if break is missing?
- Write a point of difference between for() and do while () loop.
- Read the following code and answer the questions that follow-
public static void main(String args[])
{
 int sum = 0;
 for (int i = 5; i <= 10; i++)
 {
 sum += i;
 }
 System.out.println(sum);
}
 - How many times the following loop will execute?
 - What will be the output?
- Convert the following for loop statement into the corresponding 'while' loop.
int sum = 0;
for(int i= 0; i <= 100; i++)
sum = sum + i;
- Rewrite the following 'if' statement, using the switch statement:
if (choice == 0)
 System.out.println("You selected Blue");
else if (choice == 1)
 System.out.println("You selected Red");
else if (choice == 4)
 System.out.println("You selected Green");
else
 System.out.println("You selected Yellow");

- Q2. Write a program to accept a number and check and display whether it is a spy number or not.
(A number is spy if the sum of its digits equals the product of the digits.) [10]
Example: Consider the number, 1124.
Sum of the digits = 1 + 1 + 2 + 4 = 8.
Product of the digits = 1 * 1 * 2 * 4 = 8.

- Q3. Write a program to find and display the sum of the series given below: [10]
 $S = x^1 - x^2 + x^3 - x^4 + x^5 \dots \dots \dots - x^{20}$

Note- Variable description not required for Q2 and Q3.