

Course Name	OOPS using C++ Language
Course Code	CSU1287
Class	B. Tech AI/CSE
Specialisation: ALL	Sem: 2nd
Time: 1:30 hrs	MM: 30

Term I

Very short answer questions (2 marks)

- Q.1. Write a C++ program that prints the developer's name and the year C++ was developed.
- Q.2. Write a program that declares two integer variables, assigns them values, calculates their difference and then displays the result.
- Q.3. WAP to calculate the sum of the first 10 natural numbers and print only odd numbers in reverse order
- Q.4. What is the difference between if-else and switch statements in C++?
- Q.5. Write a program to check whether the number is prime or not.

Short answer questions (3 marks)

- Q.1. WAP to calculate the square root of a number without using the in-built function sqrt().
- Q.2. WAP for Advance calculator using switch statement which includes: 1. Factorial, 2: Power, 3. Square root and 4. Exit operations. The program only exits after prompting 4.
- Q.3. WAP to print the following pattern:

```

1
2 3
4 5 6

```

- Q.4. WAP to check whether a given character is an English letter and print it as a vowel or consonant.
- Q.5. WAP to calculate the LCM and GCD of numbers.

Long answer questions (5 marks)

- Q.1. WAP to print Pascal triangle.

```

      1
     1 1
    1 2 1
   1 3 3 1
  1 4 6 4 1

```

Course Name	OOPS using C++ Language
Course Code	CSU1287
Class	B. Tech AI/CSE
Specialisation: ALL	Sem: 2nd
Time: 1:30 hrs	MM: 30

Term I

Very short answer questions (2 marks)

- Q.1. Write a C++ program that prints the developer's name and the year C++ was developed.
- Q.2. Write a program that declares two integer variables, assigns them values, calculates their difference and then displays the result.
- Q.3. WAP to calculate the sum of the first 10 natural numbers and print only odd numbers in reverse order
- Q.4. What is the difference between if-else and switch statements in C++?
- Q.5. Write a program to check whether the number is prime or not.

Short answer questions (3 marks)

- Q.1. WAP to calculate the square root of a number without using the in-built function sqrt().
- Q.2. WAP for Advance calculator using switch statement which includes: 1. Factorial, 2: Power, 3. Square root and 4. Exit operations. The program only exits after prompting 4.
- Q.3. WAP to print the following pattern:

```

1
2 3
4 5 6

```

- Q.4. WAP to check whether a given character is an English letter and print it as a vowel or consonant.
- Q.5. WAP to calculate the LCM and GCD of numbers.

Long answer questions (5 marks)

- Q.1. WAP to print Pascal triangle.

```

      1
     1 1
    1 2 1
   1 3 3 1
  1 4 6 4 1

```