

Central University of Himachal Pradesh (Established under Central Universities Act 2009) PO Box: 21, Dharamshala, District Kangra, Himachal Pradesh-176215

Name of Programme of Study.

(To be filled by the Student)

MID Term Examination

Semester: First Name of the Course: Object Oriented Programming

Time: $1\frac{1}{2}$ Hours

Date: 03/02/2023

Course Code: MCA 534

Maximum Marks: 40

Note:

1. Answer Sections A, B & C in the answer book provided.

2. Comply with the instructions given in the Main Answer Book carefully.

SECTION - A

MULTI CHOICE QUESTIONS

(10x1=10 Marks)

10

1. Answer all the following TEN questions with ONE mark each.

2) What is class?

3) What is default access qualifier of a class in \$\(\epsilon + \epsilon\$\)

4) What will be the output of following code?

5) Define inheritance.

6) List all storage classes supported in C++.

7) Define type casting?

8) What is the use of new operator in C++?

9) What is an inline function?

10) Write any four keywords used in C++.

4 24 5 22

20

18

8 16

SECT:ON - B SHORT ANSWER QUESTIONS

(2x5=10 Marks)

Answer any Two out of the following SIX questions. Each question carries FIVE marks.

2. Write a program to find the sum of following series:

$$S = 5 + 10 + \dots + N$$

Where N is input by user.

- 3. Write general syntax of switch statement. Also give an example.
- 4. Discuss the concept of recursion using an example.
- 5. What is a function? Explain the concept of function with default arguments using an example.
- 6. Discuss how member functions of a class are defined outside and inside a class using an example.
- 7. Write a program using else if ladder to calculate the total amount for following:

Units	Price per unit
1-100	0.30
101-200	0.60
201-300	0.90
301-400	1.35
400+	2.35

SECTION - C

LONG ANSWER ESSAY TYPE QUESTIONS

(2x10=20 Marks)

Answer any Two out of the following FOUR questions. Each question carries TEN marks.

- 8. Explain different basic data types supported in C++.
- 9. What is looping? Explain different types of loops supported in C++ using suitable example.
- 10. What do you mean by function overloading? Explain using an example.
- 11. What is a constructor? Discuss its types using suitable example.