

2024-27
(Vocational)

Full Marks : 60

Time : 3 Hours

Candidates are required to give their answer in their own words as far as practicable. Their figures in the margin indicate full marks.

Section – A

Answer **all** questions from this Sections.

1. Choose most appropriate answer from the given choices : $10 \times 1 = 10$

(a) C is..... language :

(i) MLL

(ii) LLL

(iii) POL

(iv) OOL

(b) Operator with one operand is categorized as :

(i) One

(ii) Two

(iii) Three

(iv) Four

- (c) is not a valid operator.
- (i) && (ii) ==
 (iii) || (iv) !!
- (d) is not a type of constructor.
- (i) Default constructor
 (ii) Parameterized constructor
 (iii) Copy Constructor
 (iv) Friend Constructor
- (e) is not a keyword.
- (i) Integer (ii) Float
 (iii) Double (iv) Char
 (v) None of these
- (f) What is an object in C++ ?
- (i) A function of the class
 (ii) Data type of class
 (iii) Instance of the class
 (iv) Syntax of the class
- (g) Which of the following type is provided by C++ but not C ?
- (i) Double (ii) Float
 (iii) Int (iv) Bool
- (h) Which of the following symbol is used to declare the preprocessor directives in C++ ?
- (i) \$ (ii) ^
 (iii) # (iv) *

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- (i) What is meant by a polymorphism in C++ ?
- (i) Class having only single form
 (ii) Class having four forms
 (iii) Class having many forms
 (iv) Class having two forms
- (j) What will be the output of given code segment :
- ```
x=5;
for (i=0;<5;i++);
x=x+1;
cout <<x;
.....
```
- (i) 5                      (ii) 10  
 (iii) 4                      (iv) None of the above
2. With suitable example, differentiate between :
- (i) While and do while.  
 (ii) Array and Structure                      5

**Section - B**

Answer any **three** questions.                      15×3=45

3. (a) What is function ? What are its different types ? Can we write program without any function ? How many functions are allowed in a program ?                      8

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- (b) Write a program to calculate factorial of given number using recursion. 7
4. (a) What is operator ? Why it is used ? What are its different types ? Explain with suitable example. 10
- (b) Discuss and clear post pre increment. 5
5. (a) Write a program to compare 3 numbers and print smallest number. 10
- (b) Write a program to generate all prime numbers up to 100. 5
6. (a) What is polymorphism ? What are its different types ? 7
- (b) Write a program to demonstrate function overloading. 8
7. Write short notes on any **three** :  $5 \times 3 = 15$
- (a) Key words (b) Pointers
- (c) Inheritance (d) Constructor
- (e) Exception Handling

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