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II-UG-MDC-II
(Prog. in C++)

UG 2nd Semester Examination, 2026 (Reg)

PROGRAMMING IN C++

Full Marks : 100

Time : 3 hours

Answer all questions

The figures in the right-hand margin indicate marks

PART-I

1. Answer *all* questions : **1 × 10**

I. Which of the following is a simple data type in C++ ?

A) Array

☒ **B) Int**

C) Class

D) Structure

(Turn Over)

(2)

II. Which operator has highest precedence ?

- A) +
- ☒ B) *
- C) =
- D) -

III. Which operator is used with cout ?

- A) >>
- ☒ B) <<
- C) >>
- D) ::

IV. Which of the following is a preprocessor directive ?

- A) main ()
- B) cout
- ☒ C) #include
- D) return

V. Which statement is used for decision making ?

(3)

- A) for
- B) while
- ☒ C) if
- D) do-while

VI. Which loop is guaranteed to execute at least once ?

- A) for
- B) while
- ☒ C) do-while
- D) none

VII. Which operator is used for logical AND ?

- A) ||
- ☒ B) &&
- C) !
- D) &

VIII. A function that returns a value is called _____.

(4)

- A) void function
- B) return function
- ☒ C) value-returning function
- D) pointer function

IX. Global variables are declared _____

- A) Inside functions
- ☒ B) Outside all functions
- C) Inside loops
- D) Inside arrays only

X. Which symbol is used to declare a pointer ?

- A) &
- ☒ B) *
- C) #
- D) \$

PART-II

2. Answer *all* questions. The answer should be within 50 words : 2 x 9

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(5)

- (a) What are simple data types in C++ ?
- (b) List any four arithmetic operators in C++.
- (c) Define constant in C++.
- (d) Define increment operator (++).
- (e) What are logical operators in C++ ?
- (f) What is while loop ?
- (g) What are actual parameters ?
- (h) What is a two-dimensional array ?
- (i) How is pointer declared in C++ ?

PART-III

3. Answer any *eight* questions within 250 words : 5 x 8

(Continued) II-UG-MDC-II(Prog. in C++)

(Turn Over)

(6)

- (a) Differentiate between integer and floating-point data types.
- (b) What is operator precedence ? Explain with suitable examples.
- (c) Write short notes on string data type in C++.
- (d) Explain expressions in C++ with suitable examples.
- (e) Write a C++ program using arithmetic operators.
- (f) Explain logical operators with truth table.
- (g) Write a program to print numbers using for loop.

(7)

- (h) Write a program to find sum of array elements.
- (i) Explain array and pointer relationship in C++.
- (j) Explain value returning functions with example.

PART-IV

4. Answer any *four* questions. Answer should be within 800 words : 8 × 4
- (a) Describe different data types in C++ with suitable examples.
 - (b) Explain variables and constants in C++ with examples.
 - (c) Describe decision-making statements in C++ with examples.

(d) Explain functions in C++ with syntax and advantages.

(e) Explain the concept of structured programming and its features.
