

## 2nd Sem-BCA(MJ-2)

2023

*Full Marks : 60*

*Time : 3 hours*

- i. Groups A carries very short answer type compulsory questions.
- ii. Answer 3 out of 5 subjective/descriptive questions given in Group B.
- iii. Answer **all** sub parts of a questions at one place.

*The figures in the right-hand margin indicate marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

### GROUP—A

1. Choose the *correct* answer. 1 × 5
  - (a) Which of the following is 'address of operator'

( Turn Over )



( 2 )

- (i) \*
- ☒ (ii) &
- (iii) \\\
- ☒ (iv) &&

(b) Identify the correct example for a pre-increment operator.

- ☒ (i) ++n
- (ii) n++
- (iii) --n
- (iv) n--

(c) When can an inline function be expanded ?

- ☒ (i) Compile Time
- (ii) Run Time
- (iii) Never get expanded
- ☒ (iv) All of these

(d) Identify the correct function from which the execution of C++ program start.



( 3 )

- (i) New
- (ii) Start ()
- (iii) Pow ()
- ✓(iv) Main ()

(e) How much bytes of memory does void occupy.

- (i) 1
- ✓(ii) 0
- (iii) 2
- (iv) 3

2. Write the difference between class and structure. 5

✓3. What do you understand about polymorphism in C<sup>++</sup>. 5

### GROUP—B

4. What is constructor in C<sup>++</sup> ? Write a program in C<sup>++</sup> to use the concept of parametarized constructor. 15



5. What are the different types of Inheritance ? Explain with example. 15
6. What is Function? Use recursive Function to Find the Factorial of a numbers. 15
- ✓ 7. Explain stream classes for files. How to read and write a file in C<sup>++</sup>. 15
8. Answer of the following: 15
  - (a) Virtual Function
  - (b) Call-By-Value
  - ✓ (c) Operator Overloading

☐ - exotic - soft -