

FD-2864

BCA (Part-II) Examination, 2022

Paper - III

Programming in 'C++'

Time: Three Hours] [Maximum Marks: 80 [Minimum Pass Marks: 27]

Note: Answer any **two** parts from each question. All questions carry equal marks.

Unit-I

- **1.** (a) Write down the benefits of OOP's.
 - (b) Explain user-defined data types.
 - (c) What is the difference between while and do-while loop? (Give an example also)

Unit-II

- **2.** (a) What is function prototyping? Explain with syntax and example.
 - (b) Explain call by reference and return by reference with example (if necessary).
 - (c) Describe inline function with an example.

Unit-III

- **3.** (a) How is a member function of a class defined?
 - (b) Describe static data members and also explain the characteristics with an example.
 - (c) What is Constructor? Define the types of constructor with an example.

Unit-IV

- **4.** (a) Explain pointer to derived classes with an example.
 - (b) What is function overriding? Explain with an example.
 - (c) Define Inheritance. Also write an example of multilevel inheritance.

DRG 49 (3) (Turn Over)

DRG_49_(3)

(Continued)

Unit-V

5. (a) What is virtual function? Write the rules for virtual functions with an example.

- (b) Write down the rules for overloading operators.
- (c) Explain friend function with an example.
