

Roll No.....

Total No. of Sections : 03

Total No. of Printed Pages : 04

Code No. : C-295

Annual Examination - 2018

BCA Part - II

BCA - 203

PROGRAMMING IN C++ & VISUAL C++

Max.Marks : 100

Time : 3 Hrs.

Min.Marks : 40

Note : Section 'A', containing 10 very short-answer-type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

Section - 'A'

Answer the following very short-answer-type questions in one or two sentences : **(2 × 10=20)**

- Q.1 Define data member and member function.
- Q.2 Write the name of any four features of OOPS.
- Q.3 What is destructor?
- Q.4 Define public, private & protected.
- Q.5 Write the name of operators in C++ which can not be overloaded.
- Q.6 What is relational database?
- Q.7 What is Friend Function?
- Q.8 Define pure virtual function.
- Q.9 Define the term WPARAM and LPARAM.

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Q.10 Write the full form of SDI and MDI.

Section - 'B'

Answer the following short-answer-type questions with word limit 150-200 : (6 5 = 30)

Q.1 Distinguish between procedural language and object oriented language.

OR

Explain the Basic concepts of OOPS.

Q.2 What is object? Explain object as function argument with suitable example.

OR

What is operator overloading and write a C++ program to overload '+' operator?

Q.3 What is Pointer? Write a C++ Program to swap 2 numbers using call by reference.

OR

What is function overloading? write a C++ program to find area of triangle and rectangle using function overloading.

Q.4 Explain object type, Attribute type and relationship type with example.

OR

Explain Booch methodology for object oriented design.

Q.5 Explain the features of VC++.

OR

What is MFC? Explain it.

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Section - 'C'

Answer the following long-answer-type questions with word limit 300-350 : (10 5 = 50)

Q.1 What do you mean by polymorphism? Explain with example.

OR

What is a data type in C++ ? Explain different data types in detail with example?

Q.2 Define reusability. Explain inheritance and their various types with suitable example.

OR

How do C++ structures differ from C++ class? What are objects and how are they created?

× Q.3 Explain the concept of virtual function with suitable example.

OR

Explain function templates. Write a program to swap two numbers using function templates.

Q.4 What is Database ? Explain object oriented database and query languages.

OR

Explain the architecture of object oriented database.

Q.5 Explain win main () function with its all arguments.

OR

Explain the various data types used by Windows API.

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