

Roll No. : 213374.....

Total No. of Pages : 3

BCA-206

B.C.A. (IInd Year) Examination, 2021

OBJECT ORIENTED PROGRAMMING USING C++ Paper-VI

Time Allowed : 1½ Hours

Maximum Marks : 100

Part-A

[Marks : 30]

Note :- Answer all questions (50 words each). All questions carry equal marks.

Part-B

[Marks : 70]

Note :- Answer any *two* questions (250 words each). All questions carry equal marks.

Part-A

1. Answer the following :

(i) Explain with suitable example the syntax of the Class.

(ii) State the use of scope resolution operator and its use in C++.

BCA-206_1240

(1)

SN-1588 P.T.O.

- ~~(iii) Explain concept of abstract class.~~
- ~~(iv) State the use of new operator.~~
- ~~(v) Explain the use of friend function.~~
- ~~(vi) List different types of constructors and their uses.~~
- ~~(vii) What is the use of Function Template ?~~
- ~~(viii) What is throwing and rethrowing of an exception ?~~
- ~~(ix) What is the default Constructor ?~~
- ~~(x) What is the function of the keyword 'Volatile' ?~~

Part-B

2. Define access specifier and its various types in C++.
3. Define an Inline Function in C++. Write its syntax. Is it possible for the C++ compiler to ignore inlining ?
4. Write C++ program to add two complex numbers by overloading '+' operator.
5. Differentiate between function overloading and function overriding.

Define classes to appropriately represent class hierarchy as shown in the following figure. Use constructors for both classes and display salary for a particular employee :

Class Employee with data members Employee Name, Employee ID and member functions Getdata(), Putdata(). Another Class Salary which is privately derived from Class Employee And Basic Pay, HRA, DA as data members and Cal() as member function.

7. What are Multiple Inheritances (virtual inheritance) ?
What are its advantages and disadvantages ?
8. State any *four* differences between run time polymorphism and compile time polymorphism.
9. Explain the mechanism of handling exceptions using appropriate example.
10. What is a Storage Class ? Mention the Storage Classes in C++ with suitable example.
11. Write in brief about exception handling by taking proper example.