

B.C.C.A. - II CBCS Pattern Semester-IV  
**UBCCAT405 - Paper-V : Programming with C++**

P. Pages : 2

Time : Three Hours



**GUG/W/23/12049**

Max. Marks : 40

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- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labelled diagram and use supporting data wherever necessary.
  3. Avoid vague answer and write specific answer related to question.

**Either:**

1. a) List different data types in C++. With example. 4
- b) Write a program to find largest among two numbers using If- else statements. 4

**OR**

- c) What are the basic element of programming in C++? 4
- d) Write a program to overload “Sum( )” function for add two integers, to add three read and add three integer numbers. 4

**Either:**

2. a) Design a class “Complex” with real and imaginary members also design appropriate number function to get complex number. 4
- b) What are different characteristic of OOP's? Explain in brief. 4

**OR**

- c) What is class? Write its syntax and access specifiers used in class. 4
- d) What is object? How to create on object? 4

**Either:**

3. a) Define constructor with syntax. Also explain the types of constructor in a class parameterized constructor. 4
- b) Design a class “String” with name and length as data members. Create a dynamic constructor to initialize object of any length com be created. 4

**OR**

- c) Illustrate the concept of allocation and deallocation memory though constructor and destructor. 4
- d) What is inheritance? List the advantages of it. 4

**Either:**

4. a) Write a program to overload binary “+” operation for complex class. 4
- b) Explain. 4
- i) Single inheritance.
- ii) Multilevel inheritance.

**OR**

- c) How to overload assignment operator? Explain with suitable example. 4
- d) Write a program to demonstrate a multilevel inheritance. 4
5. All questions are compulsory.
- a) Write a note on function overloading. 2
- b) Define inline member function with example. 2
- c) Explain constructor with default argument. 2
- d) Describe derived class with example. 2

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