

B.C.A. - II (CBCS Pattern) Semester-IV
UBCAT404 - Paper-IV : Object Oriented Programming Using C++

P. Pages : 2

Time : Three Hours



GUG/W/24/11978

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 whenever necessary.
 3. Avoid vague answer and write specific answer related to questions.

Either:

1. a) Explain basic elements of OOP's programming. 4
- b) Define function overloading. Explain with example. 4

OR

- c) Enlist different console I/O operation. 4
- d) What is function prototyping. Explain with example the function prototyping. 4

Either:

2. a) Design inline functions for add and multiply of two integer numbers. 4
- b) Enlist the Advantages of OOP's programming. 4

OR

- c) Explain with example 4
 - i) Private Data Members
 - ii) Public Data Members

- d) Write a Cpp program for following. 4

$$\sin X = X - \frac{X^3}{3!} + \frac{X^5}{5!} - \frac{X^7}{7!} + \dots$$

Either:

3. a) Explain the concept of constructors with default arguments. 4
- b) Describe parametrized constructor with example. 4

OR

- c) Create a constructor for "Integer" class with M and N as data members and constructor for initialize data members. 4

- d) Explain copy constructor with example. 4

Either:

4. a) Write a note on: 4
i) Pointer to objects ii) this Pointer
b) Explain file pointers and their Manipulation. 4

OR

- c) Write an application to divide the number by another and it must be able to handle any error that may arise during run time. 4
d) Describe closing and opening of files with example. 4

5. Solve all the questions.

- a) Explain call by reference with example. 2
b) Give the advantages of OOP's 2
c) Write a note on Destructors. 2
d) Explain Derived class using suitable example. 2
