

B.Sc.-II (Information Technology) (CBCS Pattern) Semester - IV
004 - Paper-IV : Object Oriented Programming C++

P. Pages : 2

Time : Three Hours



GUG/S/23/11972

Max. Marks : 40

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw a neat and labelled diagram wherever necessary.
 3. Avoid vague answers.

Either:

1. a) Explain console I/O operations in detail. 4
- b) Explain the following- 4
 - i) Call by value
 - ii) Call by reference

OR

- c) Define and explain function overloading using suitable example. 4
- d) Explain the Inline function with suitable example. 4

Either:

2. a) Explain the procedural programming in detail. 4
- b) Explain the following- 4
 - i) Data Member
 - ii) Member function

OR

- c) Write a program in CPP to overload Sum() function for add two integers, to add three real and add three integers. 4
- d) Explain the following- 4
 - i) Arrays within class
 - ii) Arrays of objects

Either:

3. a) Explain the parameterized constructors in detail. 4
- b) Explain the following- 4
 - i) Dynamic constructors
 - ii) Destructors

OR

- c) Define inheritance. Explain different types of inheritance in detail. 4
- d) Create a constructor for 'Integer' class with M and N as data members and constructor for initialize data member. 4

Either:

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|-----------|----|--|----------|
| 4. | a) | Explain the pointer to objects in detail. | 4 |
| | b) | Write a short note on virtual function using suitable example. | 4 |

OR

- | | | | |
|-----------|----|--|----------|
| | c) | Explain error Handling during file operations in detail. | 4 |
| | d) | Write a CPP program which demonstrate use of 'this' pointer. | 4 |
| 5. | | Solve all the questions. | |
| | a) | Explain the manipulators in detail. | 2 |
| | b) | Explain the objects as function arguments in detail. | 2 |
| | c) | Explain the copy constructors in short. | 2 |
| | d) | Explain the 'this' pointer in detail. | 2 |
