

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

P. Pages : 2

Time : Three Hours



GUG/S/25/11972

Max. Marks : 40

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

Either:

1. a) Define function. Explain Inline function using example. 4
- b) Write a program to evaluate $S = 1 + 3 + 5 + 7 + \dots + n$ 4

OR

- c) Write a program in C++ to find the root of quadratic equations. 4
- d) Explain user defined function in C++. 4

Either:

2. a) Enlist the advantages and applications of OOP's programming. 4
- b) Explain the concept of Arrays within class using example. 4

OR

- c) Write a note on- 4
 - i) Data member
 - ii) Member function
- d) Write the difference between class and object. 4

Either:

3. a) Define constructor. Explain parameterized constructor with example. 4
- b) What do you mean by inheritance? Explain any two types of inheritance. 4

OR

- c) What do you mean by operator overloading? Write the rules for operator overloading. 4
- d) Write a program to declare constructor and destructor as private and call them explicitly. 4

Either:

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|-----------|----|---|----------|
| 4. | a) | Write a CPP program which demonstrates use of this pointer. | 4 |
| | b) | List the various operations that can be perform on file. | 4 |

OR

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|-----------|----|---|----------|
| | c) | Write a difference between Address operator and indirection operator. | 4 |
| | d) | Write a C++ program to demonstrate virtual function. | 4 |
| 5. | | Solve all the questions. | |
| | a) | List various manipulator supported by C++. | 2 |
| | b) | Explain private and public data members. | 2 |
| | c) | Write a note on copy constructor. | 2 |
| | d) | Explain Command Line Argument with example. | 2 |
