

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

P. Pages : 2

Time : Three Hours



GUG/W/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) Define looping explain any one of the looping statement using suitable example. 4
- b) Explain function prototyping in detail. 4

OR

- c) Explain the following 4
 - i) Inline function
 - ii) Manipulators
- d) Design Inline functions for add and multiply of two integer numbers. 4

Either:

2. a) Define class, explain how to declare class and subclass using suitable example. 4
- b) Explain the Inline member function using suitable example. 4

OR

- c) Define Overloading and write a ruler for operator overloading in detail. 4
- d) Design a class “complex” with real and imaginary member also design appropriate member function to get and print complex numbers. 4

Either:

3. a) Explain the following 4
 - i) Constructors with Default Arguments
 - ii) Copy constructor
- b) Explain the unary and Binary overloading in detail. 4

OR

- c) Define Inheritance explain different types of inheritance in brief. 4
- d) Write a program for single inheritance for following structures 4

Student class (rollno, sub 1, sub 2) Student
Result class (total, avg) ↓
Result

Either:

4. a) Explain the following 4
- i) 'new' operators
- ii) 'delete' operators
- b) Explain the friend function in detail. 4

OR

- c) Explain the opening and closing of a file using suitable example. 4
- d) Write a program which demonstrate the pure virtual function. 4
5. Solve all the questions.
- a) Explain the enumeration in brief. 2
- b) Explain public and private Data member in brief. 2
- c) Write a rules for operator overloading in detail. 2
- d) Explain the command line argument in short. 2
