

B.Sc. (Part - II) Sem-III (Old)
B.Sc.23142 - Computer Science Paper-II
(Object Oriented Programming with C++)

P. Pages : 2

Time : Three Hours



GUG/S/19/1261

Max. Marks : 50

Notes : 1. All questions are compulsory and carry equal marks.

1. Either:

- a) What are looping control statements? Write a program to generate Fibonacci series upto N terms. **5**
- b) What do you mean by manipulators and enumeration. **5**

OR

- c) Write a function power() to raise a number m to a power n. The function takes a double value for m and int for n and return the result correctly. **5**
- d) Write a C++ program to add two 3×3 matrices. **5**

2. Either:

- a) What are objects? How are they created? Distinguish between an object and a class. **5**
- b) How object oriented programming is different from procedural programming? **5**

OR

- c) Write a difference between public and private member function with syntax and example. **5**
- d) Explain the following: **5**
 - i) Array within class
 - ii) Array of objects

3. Either:

- a) Explain the constructor with default arguments. **5**
- b) What are different form of inheritance? Give an example for each. **5**

OR

- c) Explain copy constructor with suitable example. **5**
- d) Explain the operator overloading in detail with suitable example. **5**

4. Either:
- a) How error handling perform during file operations. 5
 - b) What are pure virtual function? How they differ from normal virtual functions. 5
- OR**
- c) What is dynamic memory allocation? Explain with example new and delete operator. 5
 - d) Explain Write() and read() function in file handling. 5
- 5.
- a) Write a C++ program to determine given number is prime or not. 2½
 - b) Write a suitable program where one need to pass object as function arguments. 2½
 - c) Explain parameterized constructor. 2½
 - d) Explain command line argument in brief. 2½
