



GUG/W/14-3335

S.Y. B.Sc. - II Sem. - III B.Sc. 23142

## **Computer Science - II**

**(Object Oriented Programming with C++)**

### **Paper - II**

P. Pages : 4

Time : Three Hours

Max. Marks : 50

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

2. Draw well labelled diagram if necessary.

**1.** Either

- a) Write C++ Program that will ask for a temperature in Fahrenheit and display it in Celsius. **5**
- b) Explain the difference between call by value and call by reference with suitable example. **5**

**OR**

- c) List the various features of OOP supported by C++ and explain any three of them. **5**
- d) What is ternary operator? Write a program in C++ to find largest of 3 numbers using ternary operator. **5**

GUG/W/14-3335

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- 2.** Either.
- a) What are objects? How are they created? Distinguish between an object and a class. **5**
  - b) Explain the Nesting of member function with suitable example. **5**

**OR**

- c) What are static data member and explain any two characteristic of static data member. **5**
  - d) Explain the array within class with suitable example. **5**
- 3.** Either.

- a) What is operator function? Describe the syntax of an operator function. **5**
- b) What is default constructor? Give its Syntax. **5**

**OR**

- c) What are the different form of Inheritance? Give an example for each. **5**
- d) Explain copy constructor with suitable examples. **5**

4. Either.
- a) What are file modes? Describe various file mode option available. **5**
  - b) Explain pointer to objects. Write a program to illustrate it. **5**

**OR**

- c) Differentiate between pointers and references. Explain how following expressions will be evaluated \*p++ and ++\* p. **5**
  - d) What is a file pointer? Explain get c() and put c() function. **5**
5. Attempt all the questions. **10**

- a) Explain the limitations of Inline functions.
- b) Differentiate between private and public class specifier.
- c) List the special properties of Constructor.

d) i) What does term \*\*j means.

ii) What is the output of following

```
#include <iostream.h>
void main()
{int a;
  *&a=50;
  cout<<a;
}
```

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