

MCA 3rd Semester Examination, 2019

OBJECT ORIENTED PROGRAMMING

(Practical)

PAPER –MCA-392

Full Marks : 100

Time : 3 hours

The figures in the right hand margin indicate marks

Answer any **two** questions selecting
on **lottery** basis :

35 × 2

1. Write a C++ program to demonstrate constructor overloading with default arguments.
2. Write a C++ program to demonstrate any unary operator overloading using friend function.

3. Write a C++ program to demonstrate the hybrid inheritance concept.
4. Write a C++ program to show multiple inheritance with proper attributes and methods.
5. Write a C++ program to overload any binary operator using member function.
6. Write a C++ program to demonstrate default, parameterised and copy constructor in a program.
7. Write a C++ program to show how static data member is accessed by objects of a class and also show the use of scope resolution $(: :)$ operator in the same program to access the global version of a variable.
8. Write a C++ program to demonstrate virtual function with the use of 'this' pointer.

(3)

9. Write a C++ program to demonstrate the dynamic constructor.
10. Write a C++ program to create a file and then write some data into the file.
11. Write a C++ program to create a function template and class template. Then use the templates in your program.
12. Write a program to show exception handling.
13. Write a C++ program to read and display ten data records using array of objects.
14. Write a C++ program to demonstrate friend function and also friendship between two classes to access the private data of one class from another class.

15. Write a C++ program to demonstrate hierarchical inheritance.
16. Write a C++ program to show the compile time polymorphism concept.
17. Write a C++ program to demonstrate destructor function with :
 - (i) Create two blocks, each block has two objects with a message.
 - (ii) Display a message of which number of object is destroyed.
 - (iii) Total number of objects will be 10 in your program.
18. Write a C++ program to demonstrate inline function, reference variable and default argument.

Viva-voce – 20 Marks

Laboratory Note Book – 10 Marks
