

Total No. of Questions—4]

[Total No. of Printed Pages—4

Seat No.	
-------------	--

[4966]-2002

M.C.A. (Commerce Faculty) (Second Semester) EXAMINATION, 2016

202 : OOP's Using C++

(Credit System)

(2013 PATTERN)

Time : Three Hours

Maximum Marks : 50

N.B. :— (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

1. Attempt any *two* :

[7×2=14]

(a) Write a C++ program to swap the content of one text file into another.

(b) Write a C++ program to accept records on 'n' students and store it in an array of objects. The class student contains data int rollno, char name[20], float percentage members. Overload the search function for the following :

(i) Search by rollno

(ii) Search by name

(iii) Search by percentage.

(c) Write a C++ program to create a class TIME which contains hours, minutes, seconds and overload the == operator to check whether given two times are same or not.

P.T.O.

2. Attempt any *three* :

[4×3=12]

(a) What is the output of this program ?

```
# include <iostream>
# include <locale>
using namespace std;
int main ()
{
    locale mylocale (" ");
    cout. imbue (mylocale);
    cout << (double) 3.14159 << endl;
    return 0;
}
```

(b) What is the output of this program ?

```
# include <iostream>
using namespace std;
struct sec
{
    int a;
    char b;
};
int main ()
{
    struct sec s = {25, 50};
    struct sec *ps = (struct sec*)&s;
    cout <<ps -> a <<ps - > b;
    return 0;
}
```

(c) What is the output of this program ?

```
# include <iostream>
using namespace std;
int main()
{
    char * ptr;
    char str [] = "abcdefg";
    ptr = str;
    ptr + =5;
    cout << ptr;
    return 0;
}
```

(d) What is the output of this program ?

```
# include <iostream>
using namespace std;
int main()
{
    int n;
    n = -77;
    cout width (4);
    cout << internal << n << endl;
    return 0;
}
```

3. Attempt any *three* : [4×3=12]

- (a) What is constructor ? Explain different types of constructor in brief.
- (b) Explain the early binding and late binding with appropriate examples.
- (c) Explain the importance of class template with suitable example.
- (d) Explain the virtual base class and abstract base class.

4. Write short notes on (any *three*) : [4×3=12]

- (a) Typecasting
- (b) 'New' operator
- (c) Namespaces
- (d) String manipulation.