

Total No. of Questions : 5]

SEAT No. :

PB-1467

[Total No. of Pages : 3

[6226]-402

S.Y. B.B.A. (C.A.)

CA-402 : OBJECT ORIENTED CONCEPTS THROUGH  
CPP

(2019 Pattern) (Semester - IV)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

Q1) Attempt any eight of the following (out of Ten) :

[8 × 2 = 16]

- a) Define Encapsulation.
- b) What is inline function?
- c) What is Class? Give its syntax.
- d) What is Constructor?
- e) Explain any two use of Scope Resolution operator.
- f) List the operators which cannot be overloaded?
- g) What is virtual function?
- h) What is stream?
- i) Explain get () and put () function.
- j) What are the access specifiers used in C++.

Q2) Attempt any four of the following. (out of five) :

[4 × 4 = 16]

- a) Explain Memory management operators in detail.
- b) What is friend function? Explain with an example?
- c) Explain array of object in C++ with example.
- d) Explain the different types of Inheritance with example.
- e) List different types of constructor. Explain any one constructor with example.

P.T.O.

**Q3)** Attempt any four of the following. (Out of Five) : **[4 × 4 = 16]**

- a) Write a C++ program to find the maximum of two integer numbers using inline function.
- b) Write a C++ program to find the area of circle and area of triangle using function overloading.
- c) Write a C++ program to swap the values using call by reference method.
- d) Write a C++ program to create a class employee which contains data members as e\_id, e\_name, e\_Salary. Write member functions to accept and display employee information, also display information of employee having maximum salary.
- e) Write a C++ Program to overload unary ++ operator.

**Q4)** Attempt any four of the following. (out of Five) **[4 × 4 = 16]**

- a) What is Template? Explain its types in detail.
- b) Explain file opening methods in C++ with syntax.
- c) Explain the types of polymorphism in detail.
- d) Write a C++ program to calculate the Simple Interest. (Use default value for rate)
- e) What is the output of the following program? (Assume there are no syntax errors)

```
#include <iostream.h>
void stat( )
{
int m = 0;
static int n = 0;
m++;
n++;
cout<<m<< " " <<n<< "\n";
}
void main( )
{
stat( );
stat( );
getch ( );
}
```

**Q5)** Write a Short notes any two of the following. (out of Three) : [2 × 3 = 6]

- a) Manipulators in C++.
- b) Exception Handling.
- c) 'this' pointer.



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