

(4)

(b) What do you understand by storage class specifier? 5

7. Write short notes on the following with examples in C++ : 15

(i) Call by value

(ii) Call by reference

Unit-IV

8. Write short notes on the following with examples in C++: 15

(i) File handling in C++

(ii) Stack and queue

9. (a) Write an Overloading function for computing area of triangle, Circle and rectangle. 10

(b) Explain the following : 5

(i) EOF

(ii) Stdin

A

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B.C.A. (Semester-IV) Examination, 2015

(Old Course)

C++ & Object Oriented Programming

(BCA-401)

Time Allowed : Three Hours] [Maximum Marks : 100

Note : Answer five questions in all. Question No.1 is compulsory. Attempt one question from each Unit I,II,III and IV.

1. Answer each of the following : $4 \times 10 = 40$

(a) What is the difference between function and operating overloading? Also give one example of each.

(b) Explain the need of inheritance and list any 3 advantages of it.

(c) What are the advantages of the text file and binary file?

(2)

- (d) Differentiate with example between classes and objects.
- (e) What is the purpose of # include statement?
- (f) Differentiate between Structures and Unions in C++.
- (g) Define Inline function.
- (h) Write the difference between static and dynamic memory allocation.
- (i) What is external and static variable?
- (j) Explain multiplicity with examples.

Unit-I

- 2. Explain the following with suitable examples in C++ : 15
 - (i) Encapsulation
 - (ii) Data Hiding
 - (iii) Operator precedence
 - (iv) Copy Constructor
 - (v) Generalization
- 3. (a) Write a program in C++ to check whether the given integer Number is prime or not.

7½

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(3)

- (b) Write a program in C++ to find the sum of all odd numbers between 10 to 100.

7½

Unit-II

- 4. Discuss the following with suitable examples in C++ : 15
 - (i) Nested classes
 - (ii) Friend function
 - (iii) Static class member
 - (iv) go to
 - (v) Public class
- 5. (a) Write a program in C++ to check whether the given string is a Palindrome or not. 10
- (b) Explain the concept of pointers in C++ in brief. 5

Unit-III

- 6. (a) Write a C++ program to calculate the factorial of any number Through the pointer.

10

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P.T.O.