Total No. of Pages: 2

Seat No.

B.C.A. (Under Faculty of Commerce) (Part - II) (Semester - III) Examination, April - 2016 OBJECT ORIENTED PROGRAMMING WITH C++ (Paper - 304) Sub. Code: 63399

Sub. Code: 63399	io Pue vie
Day and Date : Friday, 29 - 04 - 2016 Time : 11.00 a.m. to 2.00 p.m.	Total Marks: 80
Instructions: 1) Attempt <u>any four</u> from Q.No. 1 to Q. No. 7. 2) Q.No. 8 is Compulsory. 3) Figures to the right indicate marks to the qu	nestion.
Q1) a) Explain various features of Object oriented progra	amming. [8]
b) List and Explain different data types of supported and size?	l in C++ with its range [8]
Q2) a) What is friend function? What is the use of usin C++? Explain with a program.	ng friend functions in [8]
b) What is class? How it is declared? How member inside and outside the class body with example p	functions are defined rogram. [8]
Q3) a) What are Constructor and Destructor? Expla constructors with the help of example.	in different types of [8]
b) Why it is necessary to overload an operator? Wr two complex numbers and add them with overloading?	rite a program to input h + using operator [8]
Q4) a) What is inheritance? Show the use of multiple inlended of proper programming example.	heritance with the help
b) What is function overloading? Explain with suitab	ole example. [8]

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What is polymorphism? Differentiate between early binding and late binding with example. [8]
Explain following terms with example: [8]
i) Virtual function
ii) Pure virtual function
What is a stream? Explain with a neat diagram the C++ class hierarchy for stream handling. [8]
Write a C++ program to copy the contents of one file to another. [8]
Explain public, private and protected access specifiers and show their visibility when they are inherited as public, private and protected. [8]
What do you mean by Operator? List different types of operators in C++ and explain relational and logic operators? [8]
e short notes on (any four): [16]
Constant in C++.
Array in C++.
Multilevel inheritance.
Inline function.
File pointer.
(4) a) What is inheritance? Show the use of multiple inhemance with