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BO—29—2016

FACULTY OF COMPUTER STUDIES

B.C.A. (Second Year) (Third Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(Revised Course)

COMPUTER APPLICATION

Paper B.C.A. S3.4

(Object Oriented Programming with C++)

(Saturday, 26-11-2016)

Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—80

N.B. :— (i) Attempt All questions.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data if necessary.

1. Attempt the following : 20

(i) Describe arrays with example.

(ii) Explain I/O statements in C++.

(iii) Describe pure virtual function

(iv) Explain visibility modes.

2. (a) Explain static data member with example. 8

(b) Explain basic concepts of OOPs. 7

Or

(c) Describe function overloading with example. 8

(d) Explain default arguments with example. 7

3. (a) What is operator overloading ? Write a pgm to overload unary plus (+) operator. 8

(b) Write a program to demonstrate multiple inheritance. 7

Or

(c) Write a C++ program to calculate factorial of a number. 8

(d) Explain the concept of polymorphism along with its types. 7

P.T.O.

4. (a) Write a program to find maximum of three numbers using conditional operator. 8
- (b) What is constructor ? Explain parameterized constructor. 7
- Or*
- (c) Write a program to demonstrate friend function. 8
- (d) Discuss file stream classes. 7
5. Write short notes on (any *three*) : 15
- (i) Detecting EOF
- (ii) File modes
- (iii) Class and object
- (iv) Open()
- (v) Type casting.