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BR—145—2016

FACULTY OF COMPUTER STUDIES

M.Sc. (CS) (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2016

(CBCS Course)

COMPUTER SCIENCE

Paper CS-102

(Programming with C++)

(Friday, 18-11-2016)

Time : 10.00 a.m. to 1.00 p.m.

Time—Three Hours

Maximum Marks—75

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

(ii) Figures to the right indicate full marks.

1. Attempt the following (any *three*) : 15
 - (a) Explain applications of OOPs.
 - (b) Describe operators used in C++.
 - (c) What is friend function ?
 - (d) Explain static function in detail.
 - (e) Explain concept of destructor.
2. Answer the following (any *three*) : 15
 - (a) Explain pure virtual function.
 - (b) What is inheritance ? What are the different types of it ?
 - (c) Write a program to describe function overloading.
 - (d) Explain virtual base class in detail.
3. Attempt the following (any *two*) : 15
 - (a) Explain object oriented paradigm.
 - (b) Explain any *two* file handling functions.
 - (c) Write a program to describe unary operator overloading.

P.T.O.

4. Answer the following (any *three*) :

15

- (a) Write a program to describe call by reference.
- (b) Explain concept of template.
- (c) Write a program to reverse the digits of a number.
- (d) Explain sequential files in detail.

5. Write short notes on any *three* :

15

- (a) Structure of C++ program
- (b) Visibility models
- (c) Keywords
- (d) Nesting of member function
- (e) This Pointer.