(i) Printed Pages: 2

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20/12/2 23(E) Roll No.

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Exam. Code:

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B.A./B.Sc. (General) 3rd Semester

(2123)

COMPUTER SCIENCE

Paper-CS06 Theory-B Object Oriented Programming
Using (C++)

Time Allowed: Three Hours] [Maximum Marks: 30

Note:—Attempt five questions in all, including Question 9

(Section-E) which is compulsory and selecting

one question each from Sections A-D.

SECTION-A

- (a) What is OOP? Describe its various advantages over procedural language.
 - (b) Discuss various methods of passing the arguments to a function. $2\times 3=6$
- What do you mean by array? Describe the usage of array in a class with suitable example.

SECTION-B

3. Write the usage of static and friend member functions in C++ with suitable example. $1\times6=6$

[Turn over

- 4. (a) Describe the purpose of private member functions in C++.
 - (b) Describe the concept of pass by reference arguments in C^{++} .

SECTION-C

- 5. (a) What do you mean by the destructors? Describe with suitable example.
 - (b) Write various advantages of inheritance in C++.

 $2 \times 3 = 6$

6. What is multilevel inheritance? Describe with suitable C++ code. $1\times6=6$

SECTION—D

- 7. What is virtual function? Describe its various rules. $1 \times 6 = 6$
- 8. (a) Discuss various operators that can't be overloaded in C++.
 - (b) What is function overloading? Discuss its benefits.

 $2 \times 3 = 6$

SECTION-E

- 9. Explain the following keywords/functions/terms in C++:
 - (a) Scope resolution operator (::)
 - (b) seekp()
 - (c) pass by value
 - (d) malloc
 - (e) constructor
 - (f) friend.

 $1 \times 6 = 6$