

**(4)**

- (b) What do you mean by function? Write a C++ Program to Compute the factorial of a given number. 3
7. (a) Define Inheritance? Explain different types of inheritance with suitable example. 4½
- (b) What do you mean by Inline function. Explain with suitable example. 3
- Unit - IV
8. (a) What are file modes? Describe various file mode options available in C++ with suitable example. 4½
- (b) What are the steps involving opening and closing of files? 3
9. Explain the following 7½
- (i) Library Function
  - (ii) Data types in C++
  - (iii) Friend Function
  - (iv) Late binding

A

(Printed Pages 4)

Roll No. \_\_\_\_\_

**S-755**

B.Sc. (Part-II) Examination, 2015  
(New Syllabus)  
COMPUTER SCIENCE  
Paper-II

(C++ and Object Oriented Programme)

*Time Allowed : Three Hours ] [ Maximum Marks : 50*

Note: Answer five questions in all. Question No. 1 is compulsory. Attempt one question from each of the four Units.

1. (a) Why do we include iostream. b file in C++ Programs? 2×10=20
- (b) State the problems in procedural Programming?
- (c) What are necessary conditions for a language to be object oriented?
- (d) Define the terms classes and objects with examples.
- (e) How will you achieve information hiding in C++?

**(2)**

- (f) What is the advantage of Inheritance in C++? Explain.
- (g) What are the operators that cannot be overloaded?
- (h) What is the major difference between while and DO-while statements in C++?
- (i) Define Token in C++ Programming?
- (j) Explain logical operators in C++ with suitable example?

**Unit - I**

- 2. (a) Compare and contrast the procedure oriented and object oriented approach. 4½
- (b) Explain conditional operators in C++ with suitable example? 3
- 3. Explain various forms of IF Statements in C++? Write a C++ Program to read students name and his test score, that converts a test score into its equivalent grade. (Use only else-if statement) based on the following conditions. 7½
  - test score  $\geq 90$  grade : A
  - test score  $\geq 80$  and  $< 90$  grade : B
  - test score  $\geq 70$  and  $< 80$  : grade : C
  - test score  $\geq 50$  and  $< 70$  grade : D
  - test score  $\leq 50$  grade : Fail

**(3)**

**Unit - II**

- 4. (a) What is operator overloading? How will you define it? Illustrate Unary operator overloading with an example? 4½
- (b) Explain the use of For loop in C++ Programming? Write a C++ Program to Print a pattern similar to the following pattern.

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\* \* \* \* \*

\* \* \*

\* \*

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3

- 5. (a) What do you mean by Array? Write a C++ Program to Multiply two  $[3 \times 3]$  matrices 4½
- (b) Explain the following statement 3
  - (i) Break
  - (ii) Continue
  - (iii) GO-TO

**Unit - III**

- 6. (a) What is the difference between Call by value and Call by reference? Explain with suitable example. 4½