

(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

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Roll No. _____

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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 > = 90 grade : A
 - test score > = 80 and < 90 grade : B
 - test score > = 70 and < 80 : grade : C
 - test score > = 50 and < 70 grade : D
 - test score < = 50 grade : Fail

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(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.

```
* * * * *
* * * *
* * *
* *
*
```

- 5. (a) What do you mean by Array? Write a C++ Program to Multiply two [3×3] 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

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P.T.O.