

Roll No.

78616

M. Sc. Physics 4th Sem. (New)

Examination – May, 2014

**COMPUTATIONAL METHODS AND PROGRAMMING - II
(NEW)**

Paper : XVII (Spl-II) Opt (ii)

Time : Three hours]

[Maximum Marks : 80

Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*.

1. (a) Illustrate the use of : 4
- (i) Conditional operator
- (ii) Go To statement
- (b) Explain the term Inline function. 3
- (c) Differentiate between machine level language and high level language. 4

- (d) Differentiate between abstract class and extending class. 4
- (e) Write full form of HTML. 1

UNIT - I

2. (a) Explain various operators and their hierarchy used in C++. 9
- (b) Write a C++ program to solve a quadratic equation using switch statement. 7
3. (a) Discuss main features of Unix. 9
- (b) Write a C++ program to print the largest of three numbers using if - else statement. 7

UNIT - II

4. (a) Discuss various methods of parameter passing used in user defined functions. 8
- (b) Write short notes on following: 8
- (i) Pointer
- (ii) String

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5. (a) Write a note on "Function - subprograms" in C++. 10
- (b) Discuss various input and output statements used in C. 6

UNIT - III

6. (a) Explain the features of object oriented programming. 9
- (b) What do you mean by friend function. Write a program to illustrate. 7
7. (a) Differentiate between inheritance and polymorphism. 10
- (b) What do you mean virtual class ? Explain. 6

UNIT - IV

8. (a) Give brief introduction to JAVA. 8
- (b) Discuss Tables and Frames used in HTML. 8
9. (a) How would you differentiate between JAVA and C++ ? 8
- (b) Describe various HTML Tags. 8

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