(4)

7. Differentiate between user defined functions and Library functions in Fortran. Explain any five intrinsic mathematical functions used in FORTRAN programming.   7 ½

Unit-IV

8. (a) Discuss the purpose and working of- 5

    (i)   Common statement

    (ii) EQUIVALENCE statement

   Give examplees-

   (b) Diferentiate between Actual and Dummy arguments.   2 ½

9. (a) What are subscripted variables? Write the utility of Dimension statement.   5

   (b) Write a short note on Implied do loops.   2 ½

A   (Printed Pages 4)

Roll. No. _____

S-752

B.Sc. (Part-I) Examination, 2015
(Old Syllabus)
COMPUTER SCIENCE
Second paper
(Computer Programming Fundamentals & Fortran 77/90)

Time Allowed : Three Hours]   [Maximum Marks : 50

Note : Answer Question No.1, which is compulsory and one question from each Units I to IV i.e. Five questions in all.

1. (a) Explain various logical operators used in Fortran. $2 \times 10 = 20$

   (b) What are Pseudo codes?

   (c) Explain the working of Do Loop by giving example.

   (d) Diffrentiate between top-down approach and bottom-up approch of programming.

(e) Elaborate how various data types are declared in a Fortran program.

(f) Diffrentiate between subroutine and subprogram.

(g) What is the difference between cohesion and coupling?

(h) What do you mean by Assignment Statement?

(i) Elaborate the working of Nested Do Loops.

(j) Discuss the working of Elseif statement.

Unit-I

2. (a) Draw a flowchart for finding the roots of a quadratic equation. Also explain the types of roots by representing in flowchart. 3 ½

(b) What is flowchart? How it is different from algorithm? Explain various symbols used for making flowchart. 4

3. (a) By giving examples explain various steps of program planning methodology. 4½

(b) Write an algorithm for finding the greatest of three numbers. 3

Unit-II

4. (a) With the help of proper syntax and example, explain the format directed READ statement. Compare it with List directed statement. 5

(b) Write a Fortran program to find the factorial of a given number. 2½

5. (a) Discuss various branching constructs used in FORTRAN programming by giving examples. 5

(b) Write a short note on computed Go To statement 2½

Unit-III

6. (a) By giving examples compare and contrast Arthmatic IF statement and Logical IF statements. 5

(b) Explain various operators used in FORTRAN. 2½