UG/PG ODD SEMESTER (CBCS) EXAM., 2020
held in April – 2021

COMPUTER SCIENCE

1st Semester

COURSE NO. MCSCC - 104
(Introduction to Programming Language)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

(Answer any five)

1. a) Explain the linking, loading and execution of a Fortran program with an example. 5+5=10

   b) What do you mean by Internet and Electronic Mail? 2+2=4

2. Explain the following: 5+5+4=14
   a) Data Storage
   b) Operating System
   c) Computer Languages

3. Write a Fortran program to implement the 'Read' and 'Write' operations in a file in formatted input and output and explain it. 7+7=14

4. a) Write a Fortran program to implement the "GoTo" statement. 5

   b) Write a Fortran program to find the larger value among two integer values. 5

   c) Write a Fortran program to print the value of an integer, a float and an array. 4

5. a) What do you mean by an array? 3

   b) i) How to assign the values to an array? Explain with a suitable code. 5

      ii) Write a Fortran program to add two matrices. 8

6. a) Explain the following statements with in the context of Fortran programming. Give examples.

      i) Do statement 3+4+3+4=14

      ii) Do loop

      iii) CONTINUE statement

      iv) nested Do loop

7. a) What is the basic differences between function and sub routines? 4

   b) Explain the different types of argument association in sub programs with example. 4

   c) Write a FORTRAN program to find the factorial of a number using function. 6

8. a) What are the common problems associated with function definition? 4

   b) What is the importance of INTENT attributes in sub routine definition? Give suitable example. 4

   c) Write a FORTRAN program to find the area of triangle using sub routine. 6

9. a) What do you mean by logical variable? What are the different ways to declare logical variable? 1+3=4

   b) What are the different logical operator used in FORTRAN? Discuss the priority order of logical operators with suitable example. 2+4=6

   c) Discuss the rules of character field descriptor A. 4

10. Write short note on: 4+5+5=14

    a) ASSIGN statement

    b) COMMON statement

    c) EQUIVALENCE statement