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SIIS 72 A-2K12
B.Sc. IInd Semester Degree Examination
Computer Science
Advanced "C" Programming
Paper - CS-201

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

Answer *all* the sections.

Section - A

I. Answer the following questions (1×15=15)

- 1) What is user defined function?
- 2) Define actual arguments.
- 3) Name the two mechanisms of function call.
- 4) Write the syntax of structure declaration.
- 5) Give an example to initialize structure.
- 6) What is union?
- 7) Write the syntax of Union definition.
- 8) Name the two operators used in pointer.
- 9) What do you mean by pointer dereferencing?
- 10) Write the syntax of pointer initialization.
- 11) Name the functions used in dynamic memory allocation.
- 12) What is Macro substitution?
- 13) Define graphics.
- 14) What is FILE?
- 15) Differentiate between fprintf() and fscanf().

Section - B

II. Answer any five questions. (5×5=25)

- 16) Write a C - program to find factorial of a given number using.
- 17) Explain the elements of user-defined function with syntax.

- 18) What is structure? Explain with suitable example.
- 19) Write a C - program to illustrate initialization of Union members.
- 20) Discuss the various pointer operations in C.
- 21) Define opening and closing of a data file with syntax.
- 22) Write a C-program to find the largest of two numbers using Macro substitution.

Section - C

III. Answer any **four** questions :

(4×10=40)

- 23) Explain the categories of user - defined functions based on arguments and return values.
- 24) Explain the concept of 'Array of structure' with syntax and an example.
- 25) Write a C-program to define three pointer variables of type char, int and float. Display the values and addresses of all the variables.
- 26) Explain the syntax of opening of a file. Discuss the different file access modes in C.
- 27) Write a C-program to create a data file to store the information of a student in terms of
 - name
 - Roll-no
 - Semester
 - Marks in all subjects
 - Percentageand display this information for the student.
- 28) Write a note on
 - a) Graphics functions.
 - b) Command line arguments.