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ELS 404

**First Semester M.Sc. Degree Examination, Dec. 2018/Jan. 2019
(CBCS Scheme)
ELECTRONICS
Programming in C**

Time : 3 Hours

Max. Marks : 70

PART – A

Note : Answer **all** questions.

(5×2=10)

1. a) What is a global variable ?
- b) What is the use of pointer variable ?
- c) What is a function ?
- d) Explain the general format of for loop.
- e) What is the purpose of printf and scanf functions ?

PART – B

(3×20=60)

2. a) What is an algorithm ? Explain the use of flow-chart with suitable example.
- b) Explain different types of mathematical functions used in C. **(10+10)**

OR

3. a) Explain the general structures and uses of for, while and do-while loops with suitable examples.
- b) Write an algorithm and program that reads three values, determines the largest value and prints the largest value with an identifying message.

(10+10)

P.T.O.



- 4. a) What is function definition and explain the general structure of function definition and prototyping with example.
- b) Write a C program to sort an array with N values into ascending order. **(10+10)**

OR

- 5. a) With neat diagrams, explain the modularity and its advantages in programming.
- b) What is a data file ? Explain the purpose of fopen(), fclose(), fprintf() and fscanf() functions to work with data files. **(10+10)**
- 6. a) Write a program to compute the sum of the elements in a matrix S with two rows and three columns.
- b) Write a program compute to the sum of N elements in an array using pointers. **(10+10)**

OR

- 7. a) Write a program to implement quick-sort algorithm.
 - b) Write a program to determine the length of a string using a pointer with a while loop. **(10+10)**
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