52 (Sem-1) 1.4

2018

COMPUTER FUNDAMENTALS AND PROGRAMMING

Paper: 1.4

Full Marks: 60

Time: Three hours

The figures in the margin indicate full marks for the questions.

| 1. | | 1×5=5 |
|-----|-----|---|
| | (a) | C language has been developed by |
| | | |
| 100 | (b) | In C, an array of characters is known as |
| | (0) | function is used to compare string 2 with string 1. |
| | (d) | The keyword struct in C defines a |
| 1 | (e) | Variables that hold memory are called as |
| | | |

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Define Computer. What are the major components of computer? 2+3=5

3. Answer any four:

2×4=8

- (a) Differentiate between primary memory and secondary memory.
- (b) Draw a flowchart to find the factorial of a given integer.
- (c) What is the purpose of switch statement?
- (d) Explain with example a for loop used in C.
- (e) What is a static variable?

4. Answer any four:

3×4=12

- (a) What is the difference between pass by value and pass by reference?
- (b) Differentiate between a Structure and a Union.
- (c) Write a C program to find the sum of natural numbers from 1 to n.
- (d) Explain the four string handling functions in C.

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(e) Define an array. How do we initialize a one-dimensional and a two-dimensional array?

5. Answer any four:

5×4=20

- (a) What is a pointer? What are the major advantages of a pointer?
- (b) What is a preprocessor? Explain the various preprocessor directives.
- (c) Explain the various types of functions supported by C. Give example for each C function.
- (d) What are the loop control structures?

 Discuss the three loop control structures briefly.
- (e) What is associativity, explain the operator precedence?
- (f) Write a C program to find the sum and average of given three numbers. Also draw the flowchart.

6. Answer any two:

5×2=10

(a) Write a program to search for an element using binary search.

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- (b) Write a program to generate transpose of a matrix.
- (c) Write a program to reverse a number in C.

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