

61125

**First Semester B.Sc. Degree Examination, December 2018**

*(CBCS – Semester Scheme)*

**Computer Science – I**

**PROGRAMMING CONCEPTS USING C**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to Candidates : Answer all the Sections.*

SECTION – A

Answer any **TEN** questions. Each question carries **2** marks : **(10 × 2 = 20)**

1. What is software? Give example.
2. Write the difference between variable and constant.
3. What is the purpose of getchar( ) and putchar( ) function?
4. What is nested loop?
5. Define user defined function.
6. Write the memory representation of an array.
7. How do you declare a string variable? Give example.
8. What are storage classes?
9. Define structure.
10. What is the difference between \* and & operators?
11. What is the purpose of ftell ( ) function?
12. What is a Macro?



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SECTION - B

Answer any **FIVE** questions. Each question carries **10** marks : (5 × 10 = 50)

13. (a) Write the structure of a C program? Give an example. (5)  
(b) What is an operator? Mention the various arithmetic and relational operators available in C. (5)
14. (a) Explain formatted I/O function in C. (5)  
(b) Write a C program to find largest of three numbers. (5)
15. (a) Explain the different looping control structures in C. (5)  
(b) Write a short note on recursive function with example. (5)
16. (a) Explain different types of array with example. (5)  
(b) Explain any 5 string handling functions and give an example. (5)
17. Write a C program to find product of 2 matrices. (10)
18. (a) Explain the difference between local and global variable. (4)  
(b) What is a function prototype? (3)  
(c) What are pre-processor directives? (3)
19. (a) What is an array of structure? Explain. (5)  
(b) Write the difference between call-by-value and call-by-reference. (5)
20. (a) Explain various file opening modes. (5)  
(b) Explain briefly any 2 macro substitution with example. (5)

