

<b>A-8992</b>
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<b>Sub. Code</b>
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<b>4BCAA2</b>
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**U.G. DEGREE EXAMINATION, NOVEMBER 2019**

**Computer Applications**

**Allied – PROGRAMMING IN C**

**(CBCS – 2014 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. How comments are introduced in C?
2. State the purpose of break statement.
3. What is subscripted variable?
4. What is zero-based addressing?
5. What are actual arguments?
6. What are the uses of a union data type?
7. What are pointers?
8. How is a pointer variable declared?
9. Under what circumstances, a file is useful?
10. Give the two forms of file inclusion.

**Part B****(5 × 5 = 25)**Answer **all** questions.

11. (a) Describe the logical operators available in C.

Or

- (b) Explain the If-else statement.

12. (a) Write a program in C to print the prime numbers between two limits.

Or

- (b) Describe the string handling functions available in C.

13. (a) State the rules that should be followed while defining user-defined function.

Or

- (b) How will you access the individual members in a structure?

14. (a) Describe the operators exclusively used with pointers.

Or

- (b) Write a program to concatenate two strings using pointers.

15. (a) How can you open and close a file?

Or

- (b) Write a program that copies one file to another by using command line arguments.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Describe the looping structures available in C.
  17. Write a program to arrange the names in alphabetical order.
  18. Write a program to evaluate  $nC_r$  by using the relationship  $nC_r = \frac{n!}{r!(n-r)!}$  use recursive function concept.
  19. Write a program to find the product of two matrices by using pointers.
  20. What is preprocessor? What are the facilities offered by preprocessor? Explain them.
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