

**F.Y. B. SC. (COMPUTER SCIENCE) SEM – I (CBCS - 2016  
COURSE) : SUMMER - 2018  
SUBJECT : PROGRAMMING IN C – I**

Day : **Monday**  
Date : **16/04/2018**

**S-2018-0793**

Time : **11.00 A.M. TO 02.00 PM**  
Max. Marks : 60

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**N. B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
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**Q.1 A)** Choose the correct option from the following and rewrite the sentence- **(06)**

- i) Compiler generates \_\_\_\_\_ files.
  - a) Executable code
  - b) Object code
  - c) Assembly code
  - d) None of the above
- ii) What value strcmp() function returns when two strings are the same?
  - a) 0
  - b) 2
  - c) 1
  - d) error
- iii) Which one of the following is not a reserved keyword for C ?
  - a) auto
  - b) case
  - c) main
  - d) register
- iv) A C variable can not start with \_\_\_\_\_.
  - a) A number
  - b) Special symbol
  - c) An alphabet
  - d) (a and b both)
- v) The logical AND operator in C is \_\_\_\_\_.
  - a) !
  - b) &&
  - c) ||
  - d) &
- vi) The built-in function used to copy contents of one string to other is \_\_\_\_\_.
  - a) strlen()
  - b) strcmp()
  - c) strcat()
  - d) strcpy()

**B)** Answer in **ONE** sentence-

**(06)**

- i) Give syntax for while loop.
- ii) State purpose of getchar ( ) and putchar ( ).
- iii) What is static variable?
- iv) What are strings?
- v) Define recursion.
- vi) What is pointer?

**P. T. O.**

**Q. 2** Answer **ANY THREE** of the following: (12)

- i) Define Algorithm. State features of an Algorithm.
- ii) What is switch statement? Explain with proper syntax and example.
- iii) Write a 'C' program for finding maximum of three numbers.
- iv) Differentiate between compiler and interpreter.

**Q. 3** Answer **ANY FOUR** of the following: (12)

- i) Describe block structure of a 'C' program.
- ii) Describe logical operators supported by 'C' with suitable example.
- iii) Explain various storage classes.
- iv) Explain 'C' character set in detail.
- v) Write a 'C' program to find area of a circle.

**Q. 4** Answer **ANY TWO** of the following: (12)

- i) Write a 'C' program for accepting '5' positive integers and find their sum.
- ii) Write a 'C' program using function to find factorial of a number.
- iii) Write a 'C' program to accept a string of characters and count total number of vowels in it.

**Q. 5** Answer **ANY TWO** of the following: (12)

- i) Write a 'C' program to find GCD and LCM of two numbers.
- ii) Draw a flowchart to find roots of a quadratic equation( $Ax^2+Bx+C=0$ ).
- iii) What is function? Elaborate built-in and user-defined functions in detail.

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