

**F.Y. B. SC. (COMPUTER SCIENCE) SEM – I (CBCS - 2016
COURSE) : WINTER - 2017
SUBJECT : PROGRAMMING IN C – I**

Day : Friday
Date : 27/10/2017

W-2017-0701

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

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Q. 1 A) Choose the correct option from the following and rewrite the sentence- **(06)**

i) Which operator can be used to access value at address stored in a pointer variable?

- | | |
|------|------|
| a) * | c) & |
| b) # | d) @ |

ii) C program is converted into machine language with the help of _____.

- | | |
|---------------|---------------------|
| a) An editor | c) Operating system |
| b) A compiler | d) None |

iii) Which one is not valid identifier?

- | | |
|-----------|-----------|
| a) exam_a | c) exam |
| b) exam@a | d) exam-1 |

iv) Which of the following is not valid datatype?

- | | |
|---------|----------|
| a) int | c) float |
| b) char | d) real |

v) What is a pointer?

- a) Keyword to create variable
- b) Variable used to store address of an instruction
- c) Variable used to store address of a structure
- d) Variable used to store address of another variable

vi) Which of the following is logical NOT operator?

- | | |
|-------|-------|
| a) && | c) != |
| b) ! | d) |

B) Answer in one sentence. **(06)**

i) Give purpose of printf () and scanf () statements.

ii) What is conditional operator?

iii) State the types of files supported by 'C'.

iv) List built-in datatypes in C.

v) Give syntax for 'if . . else' statement.

vi) State differences between local variable and global variable.

P. T. O.

- Q. 2** Answer **ANY THREE** of the following: (12)
- i) Give syntax and example of 'for' loop.
 - ii) Draw a flowchart to find minimum of 3 numbers.
 - iii) Write a 'C' program to convert degree Celsius to degree Fahrenheit.
 - iv) Describe features of 'C' programming language.
- Q. 3** Answer **ANY FOUR** of the following: (12)
- i) Define algorithm. State its characteristics.
 - ii) Illustrate various relational operators in 'C'.
 - iii) What is static member?
 - iv) Give syntax and example of Nested-If statement.
 - v) Differentiate between Static and Dynamic memory allocation methods.
- Q. 4** Answer **ANY TWO** of the following: (12)
- i) Write a 'C' program to swap the contents of two variables using call by reference.
 - ii) Write a 'C' program to check whether a given number is palindrome.
 - iii) Define flowchart. Draw all symbols used for flowchart.
- Q. 5** Answer **ANY TWO** of the following: (12)
- i) Write an algorithm to find average of four numbers.
 - ii) Define -compiler, interpreter, assembler and linker.
 - iii) Write a 'C' program to print first 5 terms of Fibonacci series.

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