

F.Y. B. SC. (Computer Science) SEM – I (CBCS 2018 COURSE) :

WINTER - 2018

SUBJECT: PROGRAMMING IN C-I

Day: Wednesday

Date: 10/10/2018

Time: 11.00 AM TO 02.00 PM

Max. Marks: 60

W-2018-0886

N.B:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labeled diagram **WHEREVER** necessary.
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Q.1 Attempt **ANY TWO** of the following: **(12)**

- a) Write a C program to find roots of quadratic equation $Ax^2 + Bx + C = 0$.
- b) Draw flowchart to find maximum of three numbers.
- c) Explain structure of C program with appropriate example.

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

- a) Write a C program to print first five terms of Fibonacci series.
- b) Write a C program to perform basic arithmetic operations.
- c) Describe 'for' loop with syntax and example.

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

- a) Differentiate between compiler and interpreter.
- b) Write a note on structured programming.
- c) Write a C program to find sum of digits of a number.

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

- a) Write a recursive function in C to find factorial of a given number.
- b) Differentiate between 'while' and 'do-while' loops.
- c) Describe the character set supported by C programming language.
- d) What is conditional operator? Give example.

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

- a) What is assembler?
- b) What is pre-processor directive?
- c) Give syntax and example of scanf () and printf () functions.
- d) What are different types of constants in C?
- e) What are reserved words? List any six reserved words.
- f) Write a C program to find simple interest.

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