

**F.Y. B. SC. (COMPUTER SCIENCE) SEM – I (2014 COURSE) :**  
**SUMMER - 2018**  
**SUBJECT: PROGRAMMING IN C-I**

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

**S-2018-0829**

Time: **12.00 NOON TO 02.00 PM**  
Max Marks: 40

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**N.B:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate **FULL** marks.
  - 3) Draw neat labeled diagram **WHEREVER** necessary.
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**Q.1** Answer any **TWO** of the following: **(10)**

- a) Illustrate with an example function declaration, function definition and function call.
- b) Write a 'C' program to find maximum number between three numbers.
- c) Explain data types in 'C'.

**Q.2** Answer any **TWO** of the following: **(10)**

- a) Draw a flowchart to compute GCD and LCM of two numbers.
- b) Write a history of 'C' language.
- c) Explain variable declaration in 'C' with example.

**Q.3** Answer any **TWO** of the following: **(10)**

- a) Write a 'C' program to accept a number and check whether it is Armstrong number.
- b) Describe the program development process.
- c) Explain features and advantages of an algorithm.

**Q.4** Answer any **FIVE** of the following: **(10)**

- a) Define Linker and Loader.
- b) List out the relational operator.
- c) Write advantages of functions.
- d) What is problem solving?
- e) Compare between if... else and switch statement.
- f) Write 'C' program to calculate simple interest.
- g) Draw a flowchart to calculate area of circle.

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