

Seat No.	
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**B.C.A. (Part - I) (Semester - I) Examination, April - 2018****PROGRAMMING IN 'C' (Part - I) (Revised) (Paper - 102)****Sub. Code : 59570****Day and Date : Tuesday, 17 - 04 - 2018****Total Marks : 80****Time : 11.00 a.m. to 02.00 p.m.**

- Instructions :**
- 1) Each question carries 16 Marks.
  - 2) Solve any FOUR questions from Q.1 to Q.7
  - 3) Q.8 is Compulsory.

**Q1) a)** Explain in detail simple structure of 'C' program. [8]

b) Write an algorithm and Draw flowchart for calculating Simple Interest. [8]

**Q2) a)** Explain different features of 'C' language. [8]

b) Explain how to perform input and output Functions in 'C'. [8]

**Q3) a)** Write a program in 'C' to find given number is Armstrong or not. [8]

b) Differentiate between while and do while loop. [8]

**Q4) a)** What is an array? Explain two dimensional array with example. [8]

b) What is use of break statement? Explain it's working with example. [8]

**Q5) a)** What is algorithm? Write advantages and disadvantages of an algorithm. [8]

b) What is use of switch statement? Explain it's working with example. [8]

**P.T.O.**

- Q6)** a) What is Data type? Explain various data types provided by C. [8]  
 b) Write a program in 'C' to reverse a given string. [8]

- Q7)** a) Describe various forms of if statements with example. [8]  
 b) What is flowchart? Explain symbols which are used to draw flowcharts. [8]

- Q8)** Attempt any FOUR questions from the following. [16]

- a) What are the types of errors?
- b) Explain for loop in 'C'.
- c) What is the use of goto statement?
- d) Explain any two string handling functions with example.
- e) How declare and initialize the Character type array?
- f) Explain constants in 'C'.

