

(SDE)

B.C.A. Sem-I (CBCS -2018 course): WINTER – 2018

SUBJECT : Algorithm & Program Design

Day: Thursday
Date : 29/11/2018

W-2018-4496

Time : 02.00 PM TO 05.00 PM
Max. Marks : 70

N.B.

- 1) Attempt any **FOUR** questions from Section –I
 - 2) Attempt any **TWO** questions from Section - II
 - 3) Figures to the right indicate **FULL** marks.
 - 4) Solve both sections in **SEPARATE** answer sheet
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SECTION-I

- Q.1** What is pseudo-code? Explain different characteristics of pseudo-code. (10)
- Q.2** Explain various control structures used in procedure oriented programming. (10)
- Q.3** What is flowchart? Draw a flowchart for finding product of two numbers. (10)
- Q.4** What is Fibonacci sequence? Write an algorithm to find Fibonacci sequence up to N. (10)
- Q.5** What is an array? Explain advantages of array in programming. (10)
- Q.6** Write a short Note on any Two of the following : (10)
- a) Swapping
 - b) Structured programming
 - c) Linear search
 - d) Tracing of algorithm

SECTION-II

- Q.7** Write an algorithm to compute n^{th} root of a number. (15)
- Q.8** Explain the problem of search and merge with the help of a suitable example. (15)
- Q.9** What is sorting? Explain different types of sorting algorithms. (15)

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