

S.D.E.
B.B.A. (2006 COURSE) SEM- II : SUMMER - 2018
SUBJECT : COMPUTER ALGORITHM AND PROBLEM SOLVING

Day : **Friday**
Date : **08/06/2018**

S-2018-4294

Time : **10.00 AM TO 1.00 PM**
Max. Marks : 80

N.B.

- 1) Solve **ANY FIVE** questions from section – I
- 2) Solve **ANY TWO** questions from section – II.
- 3) Answers to both the sections should be written in the **SEPARATE** answer books.

SECTION – I

- Q. 1** Explain the importance of algorithm and flowchart in problem solving. [10]
- Q. 2** What is a program? Explain the components of a program. [10]
- Q. 3** Define Array. Explain the various types of array with an example. [10]
- Q. 4** Write an algorithm to generate 50 prime numbers. [10]
- Q. 5** Draw a flowchart to compute the sum of following series: [10]
 $1 + 3 + 5 + 7 + \dots + 49.$
- Q. 6** Write an algorithm to find smallest of 'n' numbers. [10]
- Q. 7** Write short notes on **ANY TWO** of the following: [10]
- a) Loops
 - b) Decision Tables
 - c) Subroutines

P. T. O.

SECTION - II

- Q. 8 Write an algorithm and draw flowchart to reverse a number. [15]
- Q. 9 Write an algorithm and draw a flowchart to compute S:- [15]
 $S = 1! + 2! + 3! + \dots + n!$
- Q. 10 A mailing is to be sent out to customers. The content of the mailing is about the [15]
current level of discounting and potential levels of discounting. The content is
different for different types of customers.
Customer Types A, B and C gets a normal letter except customer C gets a special
letter. Any customer with 2 or more current lines or with a credit rating of 'X' get
a special paragraph added with an offer to subscribe to another level of
discounting.
Draw Decision Table.

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