

S.D.E.
B.B.A. (2006 Course) Sem- II : SUMMER - 2019
SUBJECT : COMPUTER ALGORITHM & PROBLEM SOLVING

Day : Wednesday
Date : 08/05/2019

S-2019-4898

Time 10.00 AM TO 1.00 PM
Max. Marks : 80

N.B.

- 1) Solve any **FIVE** from **SECTION-I**
 - 2) Solve any **TWO** from **SECTION-II**
 - 3) Answers to **BOTH** the sections should be written in *SAME* Answer Book.
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SECTION – I

- Q. 1** What is use of Flow Chart? Explain various symbols used in it. (10)
- Q. 2** Write an Algorithm to read and multiply two arrays and store the result in third array. (10)
- Q. 3** Differentiate between while and do..while loop. Give proper examples of each. (10)
- Q. 4** Write an Algorithm and draw Flow Chart to calculate factorial of a given number n. (10)
- Q. 5** Explain various steps in top-down approach of problem solving. (10)
- Q. 6** Define operator. With suitable examples, explain various types of operators. (10)
- Q. 7** Write short note on (ANY TWO) (10)
- a) Subroutines
 - b) Decision making in problem solving
 - c) Types of arrays

SECTION – II

- Q. 8** Write an Algorithm and draw Flow Chart to print prime numbers between 1 to 100. (15)
- Q. 9** Write an Algorithm to sort an array of 5 integers using loop and trace the same to print the array after each iterations. (15)
- Q. 10** Draw Decision Table for following scenario : (15)
An Association wants to arrange a picnic for its members and gives free offers according to number of years of membership.
- i) For membership of 1 year or less, offer is of 1 burger and 1 soft drink.
 - ii) For membership between 1 and 2 years, offer is of 1 burger, 2 soft drinks and 1 Ice-cream.
 - iii) For membership of more than 3 years, offer is of 2 burgers, unlimited soft drinks and 1 Ice-cream.

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