

**CDOE**  
**BACHELOR OF BUSINESS ADMINISTRATION (2006 COURSE)**  
**B.B.A. Sem-II : WINTER :- 2021**  
**SUBJECT: COMPUTER ALGORITHM & PROBLEM SOLVING**

**Day : Monday**  
**Date 14-02-2022**

**W-3416-2021**

**Time : 02:00 PM-05:00 PM**  
**Max. Marks: 80**

---

**N.B.**

- 1) Attempt **ANY FIVE** questions from Section – I and **ANY TWO** questions from Section – II.
  - 2) Figures to the **RIGHT** indicate **FULL** marks.
  - 3) Both the sections should be written in **SEPARATE** answer books.
- 

**SECTION – I**

- Q.1** Illustrate various types of loops used in programming. **(10)**
- Q.2** What is top-down design? Explain in detail. **(10)**
- Q.3** Explain the concept of decision making and decision table with examples. **(10)**
- Q.4** What is flow chart? Explain various symbols used to draw flow chart. **(10)**
- Q.5** What is array? Illustrate its importance in problem solving. **(10)**
- Q.6** Write an algorithm to print smallest numbers among given 10 numbers. **(10)**
- Q.7** Write short notes on **ANY TWO** of the following. **(10)**
- a) Operators
  - b) Sub routine
  - c) Input and Output

**SECTION – II**

- Q.8** Draw a flow chart for finding sum of first 100 even numbers. **(15)**
- Q.9** Write an algorithm for multiplication of two arrays. Also trace the algorithm. **(15)**
- Q.10** Construct a decision table for following : **(15)**  
When a burglar alarm sounds, if it is in one of students' house where alarm sounds every week, ignore it. Otherwise have a look outside and if the house looks not broken into and there is nobody moving inside it, ignore the alarm, otherwise call the police.  
Also list resulting rules.

\* \* \* \* \*