

B1.2-R3: BUSINESS SYSTEMS

NOTE:

1. There are **TWO PARTS** in this Module/Paper. **PART ONE** contains **FOUR** questions and **PART TWO** contains **FIVE** questions.
2. **PART ONE** is to be answered in the **TEAR-OFF ANSWER SHEET** only, attached to the question paper, as per the instructions contained therein. **PART ONE** is **NOT** to be answered in the answer book.
3. Maximum time allotted for **PART ONE** is **ONE HOUR**. Answer book for **PART TWO** will be supplied at the table when the answer sheet for **PART ONE** is returned. However, candidates, who complete **PART ONE** earlier than one hour, can collect the answer book for **PART TWO** immediately after handing over the answer sheet for **PART ONE**.

TOTAL TIME: 3 HOURS

TOTAL MARKS: 100
(PART ONE – 40; PART TWO – 60)

PART ONE **(Answer all the questions)**

1. **Each question below gives a multiple choice of answers. Choose the most appropriate one and enter in the “tear-off” answer sheet attached to the question paper, following instructions therein.** (1 x 10)
 - 1.1 Input: A="11/05/1983" Choose the right function to get Output: 198
 - A) ?SUBSTR(A,7,2)
 - B) ?STUFF(A,7,3)
 - C) ?SUBSTR(A,8,3)
 - D) ?SUBSTR(A,7,3)
 - 1.2 What is output of expression: A=CEILING(5.4)?
 - A) 5
 - B) 4
 - C) 6
 - D) none of the Above
 - 1.3 The operation carried out on an input data for examining its acceptability is termed
 - A) Checking
 - B) Moderation
 - C) Verification
 - D) Validation
 - 1.4 Decision Table is a
 - A) Tabular representation of a program logic
 - B) Symbolic representation of a program logic
 - C) Graphical representation of a program logic
 - D) All of the above
 - 1.5 The command to create a new database file based on two open database files is
 - A) SET RELATION
 - B) UPDATE
 - C) JOIN
 - D) None of the above

- 1.6 The ??? Indicates
- A) Print text to Output Screen
 - B) Print text directly to printer
 - C) Comment
 - D) Logical Operation
- 1.7 Edit Checks and Controls are built into a computer based system to
- A) Ensure that transcription errors do not corrupt the result
 - B) Duplicate data does not enter into the computer system
 - C) Avoid transposition errors
 - D) All of the above
- 1.8 Which one correct for display a record with the value 2000 in the field phone and 'false' in the logical field paid.
- A) Display for phone=2000 .AND. .NOT. paid
 - B) Display for phone=2000 AND paid ='false'
 - C) Display for phone=2000 AND. paid='false'
 - D) Display for phone=2000 .AND.NOT.paid
- 1.9 What is the Output of the following program?
- ```

For I=1 to 10
 ?"Hello"
 if (I >5)
 if (I <6)
 EXIT
 Endif
 Endif
Endfor

```
- A) Hello will print 5 times
  - B) Hello will print 6 times
  - C) Hello will print 1 time
  - D) Hello will print 10 times
- 1.10 Which one is not a function of Management?
- A) Staffing
  - B) Controlling
  - C) Planning
  - D) Co-operating

**2. Each statement below is either TRUE or FALSE. Choose the most appropriate one and ENTER in the “tear-off” sheet attached to the question paper, following instructions therein. (1 x 10)**

- 2.1 In a real-time system, all changes are recorded on a online transaction file and the master file updated for repost production when required.
- 2.2 Structured programming threat to the efficiency of coding of programs.
- 2.3 The Top-Down approach involves working from general to specific.
- 2.4 Constants of a variable can be searched within FIND and SEEK commands.
- 2.5 Natural join joins the tables according to columns those have same name.
- 2.6 SUM (Distinct) eliminates duplicate field values before determining the SUM.
- 2.7 The actual text that you enter in Memo fields gets stored in an auxiliary table file with the extension .ppt.
- 2.8 A foreign key of a table is a primary key of another table.
- 2.9 Procedures are used in unstructured Programming.
- 2.10 Indexed data will occupy more area than Direct-access data.

**3. Match words and phrases in column X with the closest related meaning/ word(s)/phrase(s) in column Y. Enter your selection in the “tear-off” answer sheet attached to the question paper, following instructions therein. (1 x 10)**

| X    |                    | Y  |                                                                   |
|------|--------------------|----|-------------------------------------------------------------------|
| 3.1  | SPACE()            | A. | Alternate name for database file.                                 |
| 3.2  | ALIAS              | B. | Changes the sequence of Instruction of execution                  |
| 3.3  | Cross Tab          | C. | The clause to define a condition on the groups of tuples          |
| 3.4  | PICTURE"@!"        | D. | summarizing data in rows and column                               |
| 3.5  | Having             | E. | Ensures that certain files are in correct format                  |
| 3.6  | LIFO               | F. | To pass privileges to another user                                |
| 3.7  | ADEL               | G. | Valuation of Stock                                                |
| 3.8  | Grant              | H. | can detect deadlock and livelock                                  |
| 3.9  | Picture Check      | I. | For insert a copy of the object from one application into another |
| 3.10 | Structural Testing | J. | Change alphabets to upper case                                    |
|      |                    | K. | Create empty character string                                     |
|      |                    | L. | Deletes an element from an array                                  |

4. Each statement below has a blank space to fit one of the word(s) or phrase(s) in the list below. Enter your choice in the “tear-off” answer sheet attached to the question paper, following instructions therein. (1 x 10)

|           |            |           |        |           |               |
|-----------|------------|-----------|--------|-----------|---------------|
| <b>A.</b> | Validation | <b>B.</b> | VED    | <b>C.</b> | Between       |
| <b>D.</b> | Flow Chart | <b>E.</b> | Skip-1 | <b>F.</b> | RTOD          |
| <b>G.</b> | AVG        | <b>H.</b> | FIFO   | <b>I.</b> | CTOD          |
| <b>J.</b> | Grant      | <b>K.</b> | List   | <b>L.</b> | DTOC          |
| <b>M.</b> | Floor      | <b>N.</b> | Revoke | <b>O.</b> | Picture Check |

- 4.1 The \_\_\_\_\_ function is used to convert data expression to a character expression.
- 4.2 Authorization command used for Database privilege is \_\_\_\_\_.
- 4.3 \_\_\_\_\_ show sequence of instructions in a single program or subroutine.
- 4.4 \_\_\_\_\_ method is used to Stock Valuation.
- 4.5 \_\_\_\_\_ analysis is useful in stock Controlling of spare parts required for maintenance.
- 4.6 The function that returns the degrees in an angle with the given number of radians is \_\_\_\_\_.
- 4.7 Command moves the record pointer to the previous record is \_\_\_\_\_.
- 4.8 The \_\_\_\_\_ command is used for searching.
- 4.9 The operator, which is used in place of relation, as well as logical operator is called \_\_\_\_\_.
- 4.10 The Process of ascertaining the logical conformity of data to certain prescribed characteristics is termed as \_\_\_\_\_.

## PART TWO

(Answer any **FOUR** questions)

**5.**

- a) Explain the methods of analysis for acquiring information for Long Term Planning.
- b) Differentiate between procedures and functions in programming language.
- c) Distinguish between Distributed Data Processing and Centralized Data processing?

**(5+5+5)**

**6.**

- a) Distinguish between index and relative file organization.
- b) What are Visual FoxPro forms? List out features that may be incorporated into form to facilitate easier data entry?
- c) Define Inventory Control System (ICS)? Give different analysis schemes used in ICS.

**(5+5+5)**

**7.**

- a) Define WHERE, ORDER BY, GROUP BY, HAVING, IN clauses in SQL?
- b) What are the main functions of DBMS and how will you differentiate it from File Management System?
- c) Consider a following database tables.

Empmaster (empcode,desgcode,empname,age,salary)

Desgmaster (desgcode,desgdescription)

- i) Write a SQL Query to display details of an Employee whose empcode is 422.
- ii) Write a SQL Query to update Employee Salary by 10,000 whose Age > 29.
- iii) Write a SQL Query to delete an age column from Empmaster.
- iv) Write a SQL Query to add empphone column into Employee table.
- v) Write a SQL Query to print Average, Maximum, Minimum salary.

**(5+5+5)**

**8.**

- a) What is Cross Tab Wizard? Explain the steps involved in creating query using Cross Tab Wizard.
- b) Write a procedure in FoxPro to reverse the first and last names of employee, which is separated by a space. Assume the field name to be NAME in a database called EMPLOYEE.
- c) Define different modes of viewing the table in Visual FoxPro? How can we operate these modes?

**(5+5+5)**

**9.**

- a) Write procedure to display one record at a time(column view) from database EMPLOYEE.dbf.

Example:

|                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Record 3 of 7<br>First name: Neha<br>Last name: Sharma<br>Address: 119 Delhi<br><br>Press Right arrow to view next record<br>Press Left arrow to view previous record<br>Press ESC to exit |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- b) Explain RQBE with an example?

**(10+5)**