

## M2-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. (1x10)**
  - 1.1 A transaction file contains the master records that are used to update the records of the following file
    - A) Master file
    - B) Data file
    - C) Transaction file
    - D) Sequential file
  - 1.2 Information can be extracted from table by using
    - A) Query
    - B) Table
    - C) Form
    - D) Database
  - 1.3 In an Organization, Policy decisions are made by the management, whose level is
    - A) Middle level
    - B) Top level
    - C) Lower level
    - D) None of the above
  - 1.4 The latest balance, up to the last transaction entered into the computer is called:
    - A) Closing Balance
    - B) Opening Balance
    - C) Current Balance
    - D) Saving Balance

- 1.5 Which of the following includes all the records from both tables and combines those that match the join condition into one record in the result set?
- A) Inner Join
  - B) Right Outer Join
  - C) Left Outer Join
  - D) Full Outer Join
- 1.6 The command that selects an index file/tag for a database file is
- A) SELECT INDEX
  - B) SELECT ORDER
  - C) SET ORDER
  - D) None of the above
- 1.7 A syntax error occurs when the system cannot understand
- A) logic
  - B) flow
  - C) command
  - D) all of above
- 1.8 Which of the following function returns a Month Day Year Character string for given date expression
- A) DAY( )
  - B) SYS ( )
  - C) MONTH( )
  - D) MDY( )
- 1.9 One to Many Form Wizard creates Form, using
- A) One Table
  - B) Two Tables
  - C) Two Forms
  - D) All of the above
- 1.10 The Function which returns a character string composed of number of specified blanks is called
- A) STR( )
  - B) LEN( )
  - C) SPACE( )
  - D) TRIM( )

**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. (1x10)**

- 2.1 A database consists of all the files of an organization, structured and integrated to facilitate updation of files and retrieval of information from them.
- 2.2 Scatter command moves data from the current form into an array.
- 2.3 Program flow charts stress on what data is used and produced at various points in a sequence of operations.
- 2.4 The locate command is used for finding the position of a record in a table as per the required criterion.
- 2.5 The first step in computerizing an accounting system is to identify the heads of accounts required and code them as appropriate.
- 2.6 You cannot add a single record or multiple records in the table.
- 2.7 The Cursor button in the query destination dialog box will direct the output to a printer.
- 2.8 Reindex command recreates all the open index (.idx and .cdx) files.
- 2.9 Group/Total Report Wizard is another wizard, which would help to create a summary report.
- 2.10 SIGN ( ) function returns a numeric value of 1,-1 or 0 depending on the sign of a numeric expression.

**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. (1x10)**

X		Y	
3.1	Cross Tab Wizard	A.	Designing a Form
3.2	Inner Join	B.	To extract information from table.
3.3	Record	C.	Allows to change position of the data
3.4	Visual Designer	D.	For creating valid expression
3.5	Record Length	E.	Creates query for related tables
3.6	Structured program	F.	Collection of field relating to an entity
3.7	Form Designer	G.	Fixed or variable
3.8	Query	H.	Format Menu
3.9	Flow Chart	I.	Used for creating tables,etc.
3.10	Mail Merge	J.	Joining of two table for matching fields
		K.	Program divided into modules
		L.	Pictorial representation of program
		M.	Merging documents with address labels
		N.	Collection of all files relating to an application

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. (1x10)

<b>A.</b>	BETWEEN( )	<b>B.</b>	Embedded	<b>C.</b>	Constant
<b>D.</b>	Query Destination Box	<b>E.</b>	Query Wizard	<b>F.</b>	Set
<b>G.</b>	Secondary	<b>H.</b>	Primary	<b>I.</b>	Linked
<b>J.</b>	Table	<b>K.</b>	WAIT	<b>L.</b>	BOF
<b>M.</b>	Label	<b>N.</b>	SYS ( )	<b>O.</b>	File

- 4.1 The \_\_\_\_\_ button in the query destination dialog box will direct the output to a DBF file.
- 4.2 The function which determines, if an expression lies between two other expression is called \_\_\_\_\_.
- 4.3 The \_\_\_\_\_ command is used to make the selected program, menu, query or form as the application’s main program.
- 4.4 \_\_\_\_\_ record keys are not necessarily unique.
- 4.5 The dialog box which allows to select the destination of a query is called \_\_\_\_\_.
- 4.6 \_\_\_\_\_ Object is a copy of the original object stored in FoxPro database.
- 4.7 The \_\_\_\_\_ command halts execution of a FoxPro program until a key is pressed.
- 4.8 Linked object is \_\_\_\_\_ with the object created in other software.
- 4.9 The \_\_\_\_\_ function returns true when the record pointer is positioned before the first record.
- 4.10 \_\_\_\_\_ is the data which is predetermined before program is used.

## PART TWO

(Answer any **FOUR** questions)

- 5.**
- a) What are the basic tasks involved in Business Data Processing? What are the advantages and disadvantages of Data Processing?
  - b) How is the inventory controlled in the organization using computers?
- (7+8)**
- 6.**
- a) Explain the various types of index files used in FoxPro.
  - b) State the difference between following:
    - 1. LOCATE and SEEK
    - 2. SORT and INDEX
  - c) Write a program to count the number of words present in a text where more than one blank space may be present between any two words, at the beginning and at the end.
- (5+4+6)**
- 7.**
- a) Differentiate between master file and transaction file. What are the master and transaction file in typical payroll systems? Show also the typical structure, including type and width.
  - b) Consider the following database with four tables. Give expressions in SQL for each of the following.
    - Employee** (person-name, street, city)
    - Works** (person-name, company-name, salary)
    - Company** (company-name, city)
    - Manages** (person-name, manager-name)
    - i) Find the names of all employees who work for First Bank Corporation.
    - ii) Find all employees whose salary is greater than Rs.10,000 per annum.
    - iii) Update Employee Salary by 10 % whose manager\_name is John.
    - iv) Print the average, minimum and maximum salary of each company.
    - v) Add a new column Age into the Employee table.
  - c) In an organization, the master file contains all the information about the employee. Write a Program in FoxPro to read the master file and find out the records which are duplicate i.e. they have the same emp number. If duplicate records are found then print their names and age.
- (5+5+5)**
- 8.**
- a) Differentiate between Unstructured and Structured Programming. Also list out the advantages and characteristics of Structured Programming.
  - b) What is Relational Database Management System? What are the advantages of Relational Database Management System?
- (8+7)**
- 9.**
- a) Differentiate between Sequential File Updation and Random File Updation.
  - b) What are the different type of files used in Visual FoxPro? Give their names with extension.
  - c) Explain the concept of object linking and embedding in Visual FoxPro.
- (5+5+5)**