

- (a) Find out the number of employees working in various departments in the OFFICE database [TOTAL command can be use].
- (b) Modify the OFF_REP to display the serial number before the name of employee.
- (c) Modify the OFF_REP file to display the following at the end of the report:
- (i) The sum of the Basic Salary field
 - (ii) The Maximum Basic Salary
- (d) Modify the OFF_REP report file to show the following at the end of the report:
- (i) The average Basic Salary
 - (ii) The minimum Basic Salary

10. Write short note on ABS() function with example. 4

11. Mention the function of BETWEEN () function and its use. 4

★★★

2020

DATABASE MANAGEMENT SYSTEM (Using Foxpro)

COMPUTER TECHNIQUE (Paper – III)

(Vocational Stream)

(Theory)

Full Marks : 100

Time : 3 hours

The figures in the margin indicate full marks for the questions

General Instructions :

- (i) Write all the answers in the Answer Script
- (ii) Attempt Part — A Objective Questions serially
- (iii) Attempt all parts of a question together at one place

(PART : A — OBJECTIVE)

(Marks : 50)

1. Fill in the blanks from the list of **words/phrases** given below : 1 × 10 = 10

(a) ACCEPT creates a ——— type variable.

(8)

DESCRIPTIVE

(Marks : 50)

PART – A

(Marks : 30)

Answer ANY THREE questions from the following

5. (a) What is the function of 'SET STATUS ON' command. 2
- (b) What are the data types available in Foxpro? Explain them with example. 8
6. (a) What is the function of SEEK command? Explain with example. 6
- (b) What is indexing a database file? What are its importance? Explain. 4
7. (a) What is a Report in Foxpro? What are its features? Explain. 6
- (b) What is a 'Quick Report' in Foxpro? 4
8. (a) What is 'Gather' and 'Scatter' commands? Explain. 6
- (b) What is "??" command in Foxpro? Explain giving example. 4

(3)

2. State whether the following statements are *True* or *False* : $1 \times 10 = 10$

- (a) Normally, the size of the SORT file is the same as the original database file. However it can be less in some case.
- (b) Only one relation can be established out of a database file.
- (c) B-CITY and B.CITY are equivalent.
- (d) A single SET RELATION command can link only two files.
- (e) USE SALES IN 5 open SALE. dbf in work area 5.
- (f) Copy STRUCTURE TO NEW copies the structure of the current file and the .CDX files.
- (g) JOIN creates a new database file by joining two or more database file.
- (h) The SUM command sums up the specified numeric variables.
- (i) Only numeric and character expression can be used with MIN ().
- (j) If one enters COUNT after opening a database file, Foxpro displays the number of records in the database file.

(5)

(d) What happens if you redefine a field type from Numeric to Float?

- (i) All value in the field are truncated to 4 decimal places
- (ii) All values in the field are lost
- (iii) Nothing changes
- (iv) None of the above

(e) Can you enter duplicate values in a field with a unique index?

- (i) Yes
- (ii) Yes, but we get a warning message
- (iii) No, any duplicate value is rejected
- (iv) None of the above

(f) The command to modify a report format file is –

- (i) Edit
- (ii) Modify
- (iii) Next
- (iv) None of the above

(6)

(g) The _____ command clears all data from the screen

- (i) Release
- (ii) Clear
- (iii) Restore
- (iv) None of the above

(h) ROUND (189, 89,0) returns _____

- (i) 190
- (ii) 189
- (iii) 278
- (iv) None of the above

(i) CTOD () is the reverse of the _____ function

- (i) STAR ()
- (ii) DTOC ()
- (iii) String ()
- (iv) None of the above

3. Choose and write the correct option: $1 \times 10 = 10$

(a) Which file is used to write the different types of Foxpro program?

(i) Report File

(ii) Label File

(iii) Program

(iv) Index File

(b) What happens if you hold the shift key down the click on File in the main menu?

(i) The close option becomes close all

(ii) The current window stores

(iii) The menu undocks and can be moved

(iv) None of the above

(c) What does the command 3+8 do if you are on the first record of the Customer Table?

(i) Store 11 in the primary key of the current record

(ii) Moves to Rec. 11

(iii) Display the numeric value 11

(iv) None of the above

(j) For each LOCATE the program must use a corresponding _____.

(i) Case

(ii) ENDCASE

(iii) ENDDO

(iv) None of the above

4. Write short notes of the following in not more than three or four sentences each: (*Any Five*) $4 \times 5 = 20$

(a) Define a database

(b) The ZAP command

(c) WAI command

(d) THE STRUCTURE of a database

(e) THE LOCATE command

(f) What is a loop?

(g) The AND operator

- (b) Foxpro provides the _____ command for sorting records stored in a database file.
- (c) The field name can be up to ten characters long and must begin with a _____.
- (d) The LIST command lists _____ records on screen.
- (e) A database file must be in _____ before we can apply any command on it.
- (f) While defining the structure for a database file, we need to assign a unique _____ for each field.
- (g) The _____ command can be used to search for data in a database file.
- (h) To add more record at the end of any database file use the command _____.
- (i) The _____ command is used to exit from Foxpro to DOS.
- (j) To define the page length for a report, select page layout from _____ menu.

Lists of Words/Phrases/Keywords:

Character	LOCATE	String	SEEK	Use
INDEX	SORT	Fieldno	Letter	All
APPEND	Quit	Report	Form	EXIT

PART – B

(Marks : 20)

Answer Question No. 10 and ANY ONE from the rest

9. Create a Report file OFF_REP for the OFFICE database file as given in the following table–

LIST OF EMPLOYEES

PAGE : 1

Name of Employee	Department	Date of Joining	Basic Salary
John	Sales	12/02/15	14000
Christopher	Finance	04/03/13	15000
Radha	Finance	02/04/12	16400
Rahul	Purchase	06/05/15	14560
Rubel	Finance	19/06/16	13550
Joseph	Purchase	20/01/14	18000
Henry	Sales	02/04/14	19000
Prabhu	Purchase	04/06/11	20800
Nayak	Finance	06/03/12	16900

Based on the above table, write the commands to perform the following task:

4×4=16