

HS/XI/V/CT/Paper-III/18

2018

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 : 48)

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

- (a) To add more record at the end of any database file use the command _____.

- (b) In Foxpro the field name must begin with a _____
- (c) ? MOD (1965,100) returns _____
- (d) The _____ command can be used to search for data in a database file.
- (e) ? ROUND (1234.6, -2) returns _____.
- (f) The _____ command to printer.
- (g) The_____ function returns the name of month from a date expression.
- (h) The_____ function returns the name of year from a date expression.
- (i) _____ command create empty character variable.
- (j) ? CEILING (189.89) returns_____.

| | | | | |
|-----------|--------------|----------|-------|--------|
| SEARCH | SET PRINT ON | LOCATE | COPY | CMONTH |
| Character | integer | APPEND | INDEX | 96 |
| SPACE() | 1200 | YEAR () | 65 | 190 |
| MONTH () | CASE | 180 | ELSE | 1235 |

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

- (a) BROWSE can prohibit deletion of records.

(3)

- (b) Foxpro menu system has no option to deletion of records.
- (c) The field width in the browser window can be changed.
- (d) RECALL undelete records deleted from the database with PACK.
- (e) One can use Foxpro function with SORT and INDEX.
- (f) The report window is divided into three parts.
- (g) To preview a report while designing it press ^p .
- (h) The RECORD () function returns the current record number.
- (i) A report can include upto a maximum of 7 page header file.
- (j) The use of OTHERWISE with DO CASE- ENDCASE is optional.

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

- (a) If the CUSTOMER table is open, what does the following command do:
 - (i) Display the same value of the company field
 - (ii) Display the character “company”

(4)

- (iii) Display the value of the variable whose name is stored in the variable named company
- (iv) None of the above
- (b) What happen if we hold the shift key down then click on file in the main menu?
 - (i) The close option becomes close all
 - (ii) The current window closes
 - (iii) The menu unlocks and can be moved
 - (iv) None of the above
- (c) Which of the following is the Primary key field in a STUDENT database file –
 - (i) NAME
 - (ii) SECTION
 - (iii) ROLL_NO
 - (iv) None of the above
- (d) What is the appropriate command to explore the database file –
 - (i) BROWSE
 - (ii) APPEND
 - (iii) EDIT
 - (iv) MOD

(5)

- (e) What happens if we redefine a field type from Numeric to Float?
- (i) All values in the field are truncated to 4 decimal
 - (ii) All values in the field are lost
 - (iii) Nothing changes
 - (iv) None of the above
- (f) What is the function, returns the nearest integer that is greater than or equal to the specific numeric expression –
- (i) INT()
 - (ii) CEILING ()
 - (iii) ABS ()
 - (iv) MIN ()
- (g) What is the extension of database file
- (i) .DB
 - (ii) .DAT
 - (iii) .DBF
 - (iv) .DBE

(6)

- (h) What is the command to open a particular database file–
- (i) USE <database name >
 - (ii) OPEN <database name >
 - (iii) Open
 - (iv) None of the above
- (i) What is the command to print a particular list of records–
- (i) TO PRN
 - (ii) LIST TO PRINT
 - (iii) PRINT RECORD TO PRN
 - (iv) None of the above
- (j) The command that selects an index file/tag for a database file is –
- (i) SELECT INDEX
 - (ii) SELECT ORDER
 - (iii) SET ORDER
 - (iv) None of the above

(7)

4. Write short notes in not more than three or four sentences each: (Any six) $3 \times 6 = 18$
- (a) Field INDEX
 - (b) What is the meaning of "SET DEFAULT TO A:"?
 - (c) CREATE command
 - (d) What is an 'Attribute in DBMS'?
 - (e) What is the purpose of 'SET TALK OFF' command?
 - (f) SET Clock.
 - (g) What is an 'entity' in DBMS?
 - (h) What is the purpose of 'AND' operator?

DESCRIPTIVE

(Marks : 52)

PART – A

(Marks : 30)

Answer ANY THREE questions from the following

5. (a) What is a database File, Record and Field? Explain.
- (b) Explain the difference between the following–
- (i) EDIT and CHANGE
 - (ii) SORT and INDEX

(8)

6. (a) Explain the use of SEARCH and LOCATE command in Foxpro. $5 + 5 = 10$
- (b) Explain the feature of Foxpro Report.
7. (a) What are the advantage of relational database? Explain $4 + 6 = 10$
- (b) Explain the difference between the following:
- (i) APPEND and APPEND BLANK
 - (ii) DOW () and CDOW ()
8. (a) Explain the concept of 'IF-ENDIF' and 'DO-CASE -END CASE'. Give example. $4 + 6 = 10$
- (b) What is an 'Index file'? What is the procedure to 'Index File' on multiple fields?
9. (a) Write a program in Foxpro to print n Fibonacci numbers. $5 + 5 = 10$
- (b) Explain COPY TO ARRAY AND APPEND FROM ARRAY.

(9)

PART – B

(Marks : 22)

Answer Question No. 10 and ANY ONE from the rest.

10. Consider a table STUDENT.DBF with the following structure :

| Field Name | Type (size) | Remarks |
|------------|----------------|-----------------------------|
| ROLL_NO | Numeric(5) | Roll Number of students |
| NAME | Character (30) | Name of the student |
| STREAM | Character (10) | Stream of |
| DEPT | Character (10) | Department |
| GENDER | Character (1) | Gender (M or F) |
| DOB | Date (10) | Date of Birth |
| DOA | Date(10) | Date of Admission |
| CLASS | Character (12) | Class in which he/she study |
| CITY | Character (20) | City where he/she belongs |
| STATE | Character (20) | State where he/she belongs |

Write the commands to complete the following queries:—

4×4=16

(a) Display the Roll No and Date of admission of the student of “Arts” stream admitted in 2008.

(10)

(b) Delete temporarily all the students whose Date of Admission was in the year 2006. After doing so, Restore the Date of Admission.

(c) Index on the field ROLL_NO. Use the index field (ROLL_NO), to find a particular roll number, which has been entered earlier.

(d) Print the structure of the file STUDENT.DBF database along with all entities.

11. What is the function and purpose of the SCATTER and GATHER command? 6

Or

12. (a) What is a memory variable? Explain. 3 + 3 = 6

(b) Explain the usage of '@' command.
