

A2-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 In a data processing system, if the input data is processed, as the transaction occurs, it is called
 - A) Parallel
 - B) Real time
 - C) Batch
 - D) Virtual
 - 1.2 A sales invoice
 - A) Debits customers and credits sales
 - B) Credits customers and debits sales
 - C) Debits finished stock and credits sales
 - D) None of the above
 - 1.3 A Sequential file organization is most suited for
 - A) Airline reservation
 - B) A library
 - C) A payroll system
 - D) None of the above
 - 1.4 Which of the following statements is false?
 - A) FIND and SEEK Commands need an index file
 - B) CONTINUE cannot be used to find the next matching record after using FIND/SEEK
 - C) Contents of a variable can be searched within FIND and SEEK Commands.
 - D) None of the above

- 1.5 The command used to change the contents of a database file using contents of another file by linking them on a common key field is
- A) REPLACE
 - B) UPDATE
 - C) CHANGE
 - D) JOIN
- 1.6 Which of the following is an invalid command?
- A) SET TALK OFF
 - B) SET BELL ON
 - C) SET DATE TO BRITISH
 - D) SET ALTE ON
- 1.7 ROUND() function is
- A) A numeric function
 - B) Used to round a number to a specified number of decimal places
 - C) Both A) and B)
 - D) None of the above.
- 1.8 Which of the following statements is not correct?
- A) The STORE command can create more than one variable.
 - B) DATE() returns the current date.
 - C) YEAR() returns the numeric value of year from a date expression.
 - D) FIELD() returns the type of a specified field.
- 1.9 The command WAIT
- A) causes all FoxPro processing to pause until any key is pressed
 - B) permits usage of a prompt which must be a character expression
 - C) has a default prompt which is "Press any key to continue...."
 - D) all of the above
- 1.10 The IIF() function
- A) results in compactness in a program
 - B) is used whenever you have both an "if true" and "if false" part of the statement
 - C) will work only if both are same type of expression
 - D) all of the above

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 Data validation is generally accomplished by making use of various types of control totals.
 2.2 The term stock includes manpower.
 2.3 Balanced sheet shows the company's health at any instant while profit and loss shows the company's performance.
 2.4 A database file cannot be indexed on a logical field.
 2.5 Structured programming diminishes the efficiency of coding of programs.
 2.6 ??? will print the message in the same line and directly on printer.
 2.7 UNIQUE command can be used to prevent the display or access of the duplicate records.
 2.8 A function such as UPPER() can be used while indexing a database file with INDEX.
 2.9 The following code:
 Y="I am fine."
 ? LEN(Y)
 will return the value as 8.
 2.10 SORT ON NAME + AMOUNT TO BANK is a valid command.

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	Recovery from failure	A.	It is called as macro function
3.2	Vendor rating	B.	It is called as substring function
3.3	Aid to programming	C.	Check point restart
3.4	Create memory variable	D.	=
3.5	&	E.	Quality product
3.6	\$	F.	Allowing full screen editing of several records
3.7	APPEND BLANK	G.	It is string function
3.8	REPLICATE()	H.	Pseudocode
3.9	SET SCOREBOARD	I.	The command is used to determine whether FoxPro compares two values with an exact match or with the first letters only
3.10	SET EXACT	J.	It is string function to isolate a section of a string
		K.	Used to decide whether message of top line and status bar have to appear
		L.	The command adds a new record to the bottom of the database

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)

A.	Weighted average	B.	.F.	C.	CEILING()
D.	Distributed	E.	REPLACE	F.	Assets
G.	Centralized	H.	Dummy	I.	General ledger system
J.	.T.	K.	FLOOR()	L.	Subsidiary ledgers

- 4.1 Loans to employees form part of_____.
- 4.2 Valuation of stock can be done by using _____ method.
- 4.3 Computerized Railway Reservation System is an example of _____data processing system.
- 4.4 In a function, if we omit the RETURN in the end, a default value of _____ is returned to the main program.
- 4.5 The _____ command will bring universal change to all records.
- 4.6 With the use of _____function, you can find out the nearest integer which is less than or equal to the specified number.
- 4.7 A special field can be placed in a _____ record at the end of a file to indicate that all valid records have been processed.
- 4.8 With the use of _____function, you can find the next higher integer that is more than or equal to the specified number.
- 4.9 Capital + Liability - _____= Zero.
- 4.10 Examples of high volumes transactions are_____.

PART TWO
(Answer any **four** questions.)

- 5.**
- a) What is the difference between an output file and a report file? Explain with suitable examples.
 - b) What are the two standard methods used in data processing systems for organizing data? Explain their relative advantages and disadvantages.

(5+10)

- 6.**
- a) Describe briefly the various types of fields supported in FoxPro.
 - b) Explain the roles of data files and index file in indexed sequential file organization.
 - c) What is report generator? What is its role in the overall design and/or usage of a database?

(5+5+5)

- 7.**
- a) Explain the following:
 - i) INLIST() function
 - ii) SUBSTR() function
 - iii) TRIM() function
 - iv) CTOD() function
 - v) DATE() function
 - b) What is SQL? Explain the SELECT statement with example.
 - c) What is object linking and embedding? Give a suitable example in support of your explanation.

(5+5+5)

- 8.**
- a) Explain the following:
 - a) What are Visual FoxPro forms? List out features that may be incorporated into form to facilitate easier data entry.
 - b) Write a procedure in FoxPro to reverse the first and last names of customers, which are separated by a comma and one space. Assume the field name to be NAME in a database called CUSTOMER.
 - c) What is Mail Merge Wizard? Explain it.

(6+6+3)

- 9.** A college conducts entrance examination for admitting students into a course. The following two tables are used for rank processing.

STUDENT MASTER

S_NO	C (4)
PERCENTAGE	N (5, 2)
EXP_MON	N (3)
TOTAL	N (6, 2)
RANK	N (2)

MARKS MASTER

S_NO	C (4)
SCORE	N (5, 2)

S_NO is the primary key. PERCENTAGE is percentage of marks obtained in the qualifying examination. EXP_MON is the work experience in months. TOTAL= SCORE + PCR + ECR. For evaluating PCR and ECR use the following table. RANK is candidate's position based on the score in entrance exam. The SCORE is marks obtained by the candidate in entrance exam. The following credits are given to the student based on the percentage of marks and work experience.

PERCENTAGE		EXP_MON	
>80	PCR=3	>=120	ECR=3
>65 & <=80	PCR=2	>=60 & <120	ECR=2
>=50 & <=65	PCR=1	>=24 & <60	ECR=1

Write a program in Visual FoxPro to calculate and print rank based on TOTAL.

(15)