

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 Which one of the following is not a function of Management
 - A) Planning
 - B) Staffing
 - C) Co-operating
 - D) Controlling
 - 1.2 Policy Formations is the function of
 - A) Top Level Management
 - B) Middle Level Management
 - C) Operational Management
 - D) All of the above
 - 1.3 Which one of the following is not used for carrying out validation check
 - A) Picture Check
 - B) Range Check
 - C) Check Digit Check
 - D) Control Check
 - 1.4 A field that uniquely identifies records in the table wizard is known as
 - A) Primary Key
 - B) Special Key
 - C) Unique Key
 - D) None of the above
 - 1.5 If Age and Category are numeric fields in a table, which one of the following statement is incorrect?
 - A) Replace all age with age+1 for age <20
 - B) Replace all age with age-1 while category>2
 - C) Replace age with age-1 for for age>20 all
 - D) None of the above

- 1.6 The function to remove leading and trailing spaces from a character expression is
- A) TRIM()
 - B) LTRIM()
 - C) RTRIM()
 - D) ALL TRIM()
- 1.7 Edit Checks and Controls are built into a computer based system to
- A) Ensure that the 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 of the following command line is correct for displaying a record with the value 2000 in the field Phone and 'false' in the logical field Paid
- A) Display for phone=200 AND paid ='false'
 - B) Display for phone=2000 .AND. paid='false'
 - C) Display for phone=2000 .AND. .NOT. paid
 - D) Display for phone=2000 .AND.NOT.paid
- 1.9 A Sequential File Organisation is most suited for
- A) Airline Reservation System
 - B) Library
 - C) Payroll System
 - D) None of the above
- 1.10 Over Time analysis is
- A) Useful for formulating personnel policies
 - B) Is derived from the payroll system
 - C) Both A) & B)
 - D) None 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 If SET EXACT is OFF, the command, List for name='RAMA' will display all the records irrespective of whether the name field contains names like 'RAMAKRISHNAN', 'RAMANUJAM etc. besides RAMA.
- 2.2 The Top-Down approach to develop modular program involves working from general to specific.
- 2.3 A function such as UPPER() can be used while sorting using a SORT command.
- 2.4 In Embedding, the embedded copy does not change even if the Original Object Changes.
- 2.5 Using the SQL SELECT command, we can retrieve data from different tables even if tables are not related.
- 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 In Mail Merge, Helper dialog box, you can only open an existing Data Source but cannot create a new one.
- 2.9 Procedures are not used in Unstructured Programming.
- 2.10 A Relative File does not use an index to access records randomly.

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 | Control Flow | A. | Retire Benefit |
| 3.2 | Time Ticket | B. | Changes the sequence of Instruction of execution. |
| 3.3 | Cross Tab | C. | The clause to define a condition on the group of tuples. |
| 3.4 | ASIN() | D. | Summarizing data in rows and column. |
| 3.5 | Having | E. | Ensures that certain fields are in correct format. |
| 3.6 | LIFO | F. | To Pass privileges to another user. |
| 3.7 | Embedding | G. | Valuation of Stock |
| 3.8 | Grant | H. | carried out on programme code |
| 3.9 | Picture Check | I. | For Insert a copy of the object from one application into another. |
| 3.10 | Functional Testing | J. | Function that returns arc of numeric value in radians between - $\pi/2$ and $+\pi/2$. |
| | | K. | To test the validation of data |
| | | L. | To move to the 2 nd cell/column in the next row |
| | | M. | Latest information |
| | | N. | To check the position of the picture |
| | | O. | Asynchronous |

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. | Validation | B. | Floor() | C. | Between |
| D. | Flow Chart | E. | Skip-1 | F. | Lowest |
| G. | Revoke | H. | Linking | I. | Highest |
| J. | Keyfield | K. | Grid Off/On | L. | Embedding |
| M. | Picture Check | N. | Avg() | | |

- 4.1. The fields within a logical record on which files are sorted are called _____.
- 4.2. The command used to cancel the Database privilege is called _____.
- 4.3. The Process of ascertaining the logical conformity of data to certain prescribed characteristics is termed as _____.
- 4.4. The term used to describe the establishment of a connection between the source and destination document is called _____.
- 4.5. In ABC analysis, C category of items represents _____ proportional value of the inventory.
- 4.6. The function that returns the absolute value of a numeric expression is called _____.
- 4.7. The _____ command moves the record pointer to the previous record.
- 4.8. The option which hides vertical line that normally appears between columns are called _____.
- 4.9. _____ ensures that certain fields are in the correct format.
- 4.10. The operator which is used in place of relation as well as logical operator is called _____.

PART TWO
(Answer any **FOUR** questions)

- 5.**
- a) Explain in brief the functions of different Levels of Management in an organization.
 - b) Mention four advantages and disadvantages of Index File Organization.
 - c) Describe the various modes of processing of data.
- (5+5+5)**
- 6.**
- a) What is RDBMS? Explain with a suitable example.
 - b) Explain advantages of Structured Programming?
 - c) What are Visual FoxPro forms? List out features that may be incorporated into a form to facilitate easier data entry?
- (4+4+7)**
- 7.**
- a) What is Mail-merge Wizard? Explain in detail with an example.
 - b) Why should we use LOCATE instead of SEEK when a filter is set?
 - c) Consider a typical Employee table. How would you handle the following queries on such a table?
 - i) Write a query inquiring the details of an Employee whose Employee code = 421
 - ii) Write a query inquiring the details of all Employees according to Designation.
 - iii) Write a query to update Employee Salary by 10,000 whose Age > 29.
 - iv) Write a SQL Command to add Emp_Phone column into Employee table.

Employee Table Structure

| Field name | Type | Width |
|-----------------|-----------|-------|
| Emp_Code | Numeric | 4 |
| Emp_Name | Character | 30 |
| Emp_Designation | Character | 10 |
| Emp_Age | Numeric | 2 |
| Emp_Salary | Numeric | 5 |

(5+5+5)

- 8.**
- a) What is Cross Tab Wizard? Explain the steps involved in creating query using Cross Tab Wizard.
 - b) Differentiate DO WHILE--ENDDO and SCAN – ENDSCAN. Using these, write a program that would print the Name, Designation and Basic Salary for every person in the table with a salary more than Rs.5000.
- (7+8)**
- 9.**
- a) What are the three ways to copy data into or out of Visual FoxPro? Explain one of them in detail.
 - b) How a Computerized Inventory Control System works? Explain.
- (7+8)**