M.Sc. 4th Semester Examination, 2014

APPLIED MATHEMATICS WITH OCEANOLOGY AND COMPUTER PROGRAMMING

(Database Management System and Software Development)

(Practical)

PAPER - MTM - 407

Full Marks: 25

Time: 2 hours

Answer any one question

The figures in the right-hand margin indicate marks

[Questions are to be selected by Lottery]

- Create a database file that will maintain a list of Name, Addresses and Telephone numbers. Write a program in FoxPro to obtain a pop-up menu containing the items.
 - (i) Add a new record.
 - (ii) Delete a record.
 - (iii) Modify a record.
 - (iv) Retrieve and display an entire record for a given name.
 - (v) Generate a complete list of all records.
 - (vi) Exit from menu.

Enter 5 records and implement (i) and (vi).

- 2. Create a database file that will maintain a list of Name, Addresses and Telephone numbers. Write a program in FoxPro to obtain a pop-up menu containing the following items:

 20
 - (i) Add a new record.
 - (ii) Delete a record.
 - (iii) Modify a record.
 - (iv) Retrieve and display an entire record for a given name.
 - (v) Generate a complete list of all records.
 - (vi) Exit from menu.

Enter 5 records and implement (ii) and (vi).

- 3. Create a database file that will maintain a list of Name, Addresses and Telephone numbers. Write a program in FoxPro to obtain a pop-up menu containing the following items:

 20
 - (i) Add a new record.
 - (ii) Delete a record.
 - (iii) Modify a record.
 - (iv) Retrieve and display an entire record for a given name.
 - (v) Generate a complete list of all records.
 - (vi) Exit from menu.

Enter 5 records and implement (iii) and (vi).

- 4. Create a database file that will maintain a list of Name, Addresses and Telephone numbers. Write a program in FoxPro to obtain a pop-up menu containing the following items:

 20
 - (i) Add a new record.
 - (ii) Delete a record.
 - (iii) Modify a record.
 - (iv) Retrieve and display an entire record for a given name.
 - (v) Generate a complete list of all records.
 - (vi) Exit from menu.

Enter 5 records and implement (iv) and (vi).

- 5. Create a database file that will maintain a list of Name, Addresses and Telephone numbers. Write a program in FoxPro to obtain a pop-up menu containing the following items:

 20
 - (i) Add a new record.
 - (ii) Delete a record.
 - (iii) Modify a record.
 - (iv) Retrieve and display an entire record for a given name.
 - (v) Generate a complete list of all records.
 - (vi) Exit from menu.

Enter 5 records and implement (v) and (vi).

- 7. Create a database file that will maintain a list of Name, Addresses and Telephone numbers. Write a program in FoxPro to obtain a pop-up menu containing the items.
 - (i) Add a new record.
 - (ii) Delete a record.
 - (iii) Modify a record.
 - (iv) Retrieve and display an entire record for a given name.
 - (v) Generate a complete list of all records.
 - (vi) Exit from menu.

Enter 5 records and implement (ii), (v) and (vi).

- 8. Create a database file that will maintain a list of Name, Addresses and Telephone numbers. Write a program in FoxPro to obtain a pop-up menu containing the items.
 - (i) Add a new record.
 - (ii) Delete a record.
 - (iii) Modify a record.
 - (iv) Retrieve and display an entire record for a given name.
 - (v) Generate a complete list of all records.
 - (vi) Exit from menu.

Enter 5 records and implement (iii) and (vi).

- 9. Create a database file containing the list of countries and their corresponding capitals. Write a program in FoxPro to obtain a pop-up menu containing the following items:

 20
 - (i) Add a new record.
 - (ii) Searching the country whose capital is given.
 - (iii) Searching the capital whose country is given.
 - (iv)Delete a record.
 - (v) Generate a complete list of all countries and capitals.
 - (vi) Exit from menu.

Enter 5 records and implement (i) and (vi).

- 10. Create a database file containing the list of countries and their corresponding capitals. Write a program in FoxPro to obtain a pop-up menu containing the following items:
 - (i) Add a new record.
 - (ii) Searching the country whose capital is given.
 - (iii) Searching the capital whose country is given.
 - (iv)Delete a record.
 - (v) Generate a complete list of all countries and capitals.
 - (vi) Exit from menu.

Enter 5 records and implement (ii) and (vi).

- 11. Create a database file containing the list of countries and their corresponding capitals. Write a program in FoxPro to obtain a pop-up menu containing the following items:

 20
 - (i) Add a new record.
 - (ii) Searching the country whose capital is given.
 - (iii) Searching the capital whose country is given.
 - (iv) Delete a record.
 - (v) Generate a complete list of all countries and capitals.
 - (vi) Exit from menu.

Enter 5 records and implement (iii) and (vi).

- 12. Create a database file containing the list of countries and their corresponding capitals. Write a program in FoxPro to obtain a pop-up menu containing the following items:

 20
 - (i) Add a new record.
 - (ii) Searching the country whose capital is given.
 - (iii) Searching the capital whose country is given.
 - (iv) Delete a record.
 - (v) Generate a complete list of all countries and capitals.
 - (vi) Exit from menu.

Enter 5 records and implement (iv) and (vi).

- 13. Create a database file containing the list of countries and their corresponding capitals. Write a program in FoxPro to obtain a pop-up menu containing the following items:
 - (i) Add a new record.
 - (ii) Searching the country whose capital is given.
 - (iii) Searching the capital whose country is given.
 - (iv) Delete a record.
 - (v) Generate a complete list of all countries and capitals.
 - (vi) Exit from menu.

Enter 5 records and implement (v) and (vi).

- 14. Create a database file containing the list of countries and their corresponding capitals. Write a program in FoxPro to obtain a pop-up menu containing the following items:

 20
 - (i) Add a new record.
 - (ii) Searching the country whose capital is given.
 - (iii) Searching the capital whose country is given.
 - (iv) Delete a record.
 - (v) Generate a complete list of all countries and capitals.
 - (vi) Exit from menu.

Enter 5 records and implement (i), (v) and (vi).

- 15. Create a database file containing the list of countries and their corresponding capitals. Write a program in FoxPro to obtain a pop-up menu containing the following items:

 20
 - (i) Add a new record.
 - (ii) Searching the country whose capital is given.
 - (iii) Searching the capital whose country is given.
 - (iv)Delete a record.
 - (v) Generate a complete list of all countries and capitals.
 - (vi) Exit from menu.

Enter 5 records and implement (iv), (v) and (vi).

16. Design a class for matrix system in C++ to include necessary members and member functions for addition, input and output operators.Demonstrate the class.

- 17. Design a class for matrix system in C++ to include necessary members and member functions for subtraction, input and output operators. Demonstrate the class.
- 18. Design a class for matrix system in C++ to include necessary members and member functions for multiplication, input and output operators. Demonstrate the class.
- 19. Design a class for matrix system in C++ to include necessary members and member functions for addition, subtraction, input and output operators. Demonstrate the class.
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- 20. Design a class for matrix system in C++ to include necessary members and member functions for addition, multiplication, input and output operators. Demonstrate the class.

- 21. Design a class for matrix system in C++ to include necessary members and member functions for addition, transpose, input and output operators. Demonstrate the class.
- 22. Design a class for matrix system in C++ to include necessary members and member functions for determinant value, input and output operators. Demonstrate the class.
- 23. Design a class for matrix system in C++ to include necessary members and member functions for inverse, input and output operators.Demonstrate the class.

[Note Book + Viva : 5 Marks]