No. of Printed Pages : **4**

SET - 1

MCA (Revised)

Term-End Practical Examination 04262

June, 2011

MCSL-025:LABORATORY COURSE (DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours   *Maximum Marks : 100*

Note :   *There are **four** sections (Data and File Structures, Networking, DBMS Lab and **Java Programming**) in this paper. Each section is for **40** minutes duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20** marks and the **viva-voce** of each section is of 5 marks.*

SECTION-A

Data and File Structures

1.   (a)   Write a C program to sort the list given below using *Bubble sort* algorithm.   **15**

89   8   12   7   3   35   6

(b)   Write a C Program which search for value 9 in the list :   **5**

8, 12, 5, 9, 6, 30
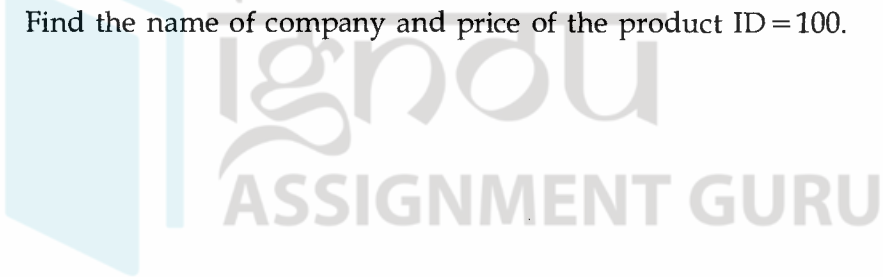
SECTION-B
Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient access rights to perform a task, then write all the steps to perform that task.

1. Run the following commands and write the uses of each command :   5
    (a)   host name
    (b)   telnet
    (c)   Disk part
    (d)   net time
    (e)   rcp

2. Perform the following task :   12
    (a)   Monitor the log time of users.
    (b)   Install and configure a local printer.
    (c)   Scan a pen drive.

3. Use ping to find the round trip delay to http : //www.indiatimes.com.   3

SECTION-C
DBMS Lab

1. Create the following table and perform the necessary task defined below : **5**

    (a) Create the following table named 'Product' :
        -   Product_Name
        -   Product_ID
        -   Price
        -   Date_of_Manuf
        -   Company
        -   Weight

    (b) Enter at least 8 records in the above table and answer the following queries using SQL : **15**

        (i)   List all the products of weight 2 kg and whose price is Rs. 100 or less ?

        (ii)   Find the price of "GHEE" produced by company "ABCD" of weight 1 kg.

        (iii) Find the name of company and price of the product ID = 100.

SECTION-D
Java Programming

1. Write a Java Program which create a string object S1 and initialize it with "My Java **10** My Programming". Also reverse the content of S1.

2. Write a Java Program which create a file named Mytext.txt and store string "A day for **10** Java learning" in it. You need to do proper exception handling in this program.

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No. of Printed Pages : 4

MCA (Revised)

Term-End Practical Examination

03600

June, 2011

MCSL-025:LABORATORY COURSE (DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours   *Maximum Marks : 100*

Note :   *There are **four** sections (Data and File Structures, Networking, DBMS Lab and **Java Programming**) in this paper. Each section is of **40** minutes duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20** marks and the **viva-voce** for 5 marks in each section.*

SECTION-A

Data and File Structures

1.   Write a C program for Binary Search Algorithm. Search value 25 in the list given   **20** below using this program.

1   18   19   23   25   80   85   100
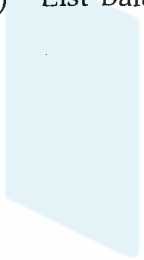
SECTION-B

Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient access rights to perform a task then write all the steps to perform that task.

1. Run the following commands and write the uses of each command.   5

    (a)   Cat

    (b)   f t p

    (c)   echo

    (d)   ping

    (e)   Net Diag

2. Perform the following tasks :   12

    (a)   Backup and restore all files in a domain

    (b)   Configure web based printer

    (c)   Create a Group Policy Object

3. Find all the files in the home directory which contain word "Computer" inside them.   3

SECTION-C
DBMS Lab

1. Create the following table and perform the necessary task defined below :   5

   (a) Create the following table named 'Account' :

   - Account_No
   - Account_Type
   - Balance
   - Name_of_Account_Holder
   - Date_of_Account Open

   (b) Enter at least 8 records in the above table and answer the following queries using   15
   SQL :

   (i) List all the Name_of_Account_Holders whose account is of saving type ?

   (ii) List all the Account_No who are of Fixed Deposit type and balance is more than Rs. 10,000 ?

   (iii) List Balance of all the account who are opened after 02-02-2011 ?

SECTION-D
Java Programming

1. (a) Write a Java Program which create an Array object with a constructor which   **10**
      initialize array with five integer element. Write a method to print the content of
      the array. Implement proper exception handling in the program.

   (b) Write an Applet which ask for your name and date of birth as input and after   **10**
      pressing a button display your age on the page.

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SET - 3

MCA (Revised)

Term-End Practical Examination 01788

June, 2011

MCSL-025:LABORATORY COURSE (DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours   *Maximum Marks : 100*

Note :   *There are **four** sections (Data and File Structures, Networking, DBMS Lab and **Java Programming**) in this paper. Each section is for **40** minutes duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20** marks and 5 marks is for **viva-voce** of each section separately.*

SECTION-A

Data and File Structures

1.   (a)   Write a C program to create a singly linked list. Insert the values   **20**

10, 8, 6, 20, 50, 12.

      (b)   Write a function to print the content of the list created above.

SECTION-B

Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient access rights to perform a task then write all the steps to perform that task.

1. Run the following commands and write the uses of each command :   **5**

    (a) sfc

    (b) date

    (c) lable

    (d) netstat

    (e) ip config

2. Perform the following tasks :   **10**

    (a) Set the execution time of a Job so that it can run at 10:00 am tomorrow.

    (b) Share any folder available on your desktop. Also configure its share permissions for different user.

3. Configure the IP security policy on the local computer.   **5**

SECTION-C

DBMS Lab

1. Create the following table and perform the necessary task defined below :   **5**

   (a) Create the following table named :

   - Medicine

   - Name

   - Company_Name

   - Components

   - Date_of.Mnf.

   - Date_of_Exp

   - MRP

   - Strength

   (b) Enter at least 8 records in the above table and answer the following queries using   **15**
   SQL :

   (i) List all the medicines whose expiry is on 01/07/2011.

   (ii) List name of medicines whose component is "Paracetamol" and strength is 500 mg.

   (iii) Find name of all the medicine whose strength is more than 125 mg and MRP is more than Rs. 20.

SECTION-D

Java Programming

1. Write a Java Program to care Account Class with a suitable constructor. Derive a Saving Account Class from the Account Class, and write a method named display to display the balance in Saving Account. **10**

2. Write an Applet which display current date and time on the web page. **10**

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No. of Printed Pages : 4   SET - 1

MCA (Revised)

Term-End Practical Examination   01222

December, 2011

MCSL-025: LABORATORY COURSE (DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours   Maximum Marks : 100

Note :   *There are **four** sections in this paper. Each section is of **40** minutes duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20** marks, and the **viva-voce** for each section is of 5 marks.*

SECTION-A
Data and File Structures

1.   Write a 'C' program to create a linked list, insert 10 integer element in it. Also find   **20**
average of these 10 elements.

SECTION-B
Networking

Perform the practical on LINUX/UNIX/WINDOWS 2000. In case you do not have sufficient access rights to perform a task, then write all the steps to perform that task.

1. Run the following commands and write the uses of each command :   5
   (a) net time
   (b) date
   (c) ip config
   (d) fc
   (e) ping

2. Send a message to all the users who are online. Make provision such that you can send   4
   message to other users and also can receive message from other users.

3. Install and configure terminal services.   6

4. Find out which lines of My message txt are satisfied by the regular expression :   5

   $(\wedge (0-9) \{1,4\} [a-z \, A-Z] + \$) \mid None$

SECTION-C
DBMS LAB

1. Create following table and perform the necessary task defined below :

   (a) Create the following table named _   5

   Inventory - Items :
   - Item - No
   - Item - Name
   - Price
   - Date
   - Expiry - Date

   (b) Enter at least 10 records in the above table and answer the following queries using SQL :   15

   (i) Find price of Item - name "ABC Tea".

   (ii) List the name of items which are entered on 1/1/2011 in the inventory and whose expiry is on 31/12/2011.

   (iii) Find all the items whose expiry is on 1/6/2011 and price is more than 100.

SECTION-D

Java Programming

1. Write a Java program which take name and address of 10 peoples and store them in a file.   **20**

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No. of Printed Pages : 4 SET - 2

MCA (Revised)

Term-End Practical Examination   02792

December, 2011

MCSL-025: LABORATORY COURSE (DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours *Maximum Marks : 100*

Note :   *There are **four** sections in this paper. Each section is of **40 minutes** duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20** marks and the **viva-voce** for 5 marks in each section.*

SECTION-A
Data and File Structure

1. (a) Write a C program to create a *circular queue,* with five elements in it.   15

   (b) Write a C function to print the elements of the *Circular queue* created in Q.1 (a).   5

SECTION-B
Networking

Perform the practical on LINUX/UNIX/WINDOWS 2000. In case you do not have sufficient access rights to perform a task, then write all the steps to perform that task.

1. Run the following commands and write the uses of each command : 5
    (a) lable
    (b) rcp
    (c) sfc
    (d) chkdsk
    (e) stp

2. (a) View TCP/IP settings 2
    (b) Find your Ethernet Physical Address 3

3. Install and configure the DHCP server services. 5

4. Access your account available on another machine, from the current machine. Also download a file from that machine to your current machine. 5

SECTION-C
DBMS LAB

1. Create the following table and perform the necessary task defined below :   **5**

    (a)   Create the following table named : Teacher

    -     Name

    -     Department

    -     Subject

    -     Date-of-Birth

    -     Emp ID

    -     Designation

    (b)   Enter at least 8 records in the above table and answer the following queries using   **15**
          SQL.

          (i)   List name and subject of all the 'professor",s in "Physics" Department.

          (ii)   List name and designation of all the teachers whose date-of-birth is
                 01/01/1972.

          (iii) List name of the teachers who teach "Java" in "Computer Science"
                 department.

SECTION-D

Java Programming

1. Write a Java program to find the sum of two Matrices $A_{4 \times 2} + B_{4 \times 2}$. **10**

2. Write an Applet which take your name and age in two different text boxes and after pressing a button, both name and age are displayed in third text box by separating name and age by a. **10**

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No. of Printed Pages : **4**

MCA (Revised)

Term-End Practical Examination

03472

December, 2011

MCSL-025: LABORATORY COURSE (DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours   *Maximum Marks : 100*

Note :   *There are **four** sections in this paper. Each section is of **40** minutes duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20** marks and the **viva-voce** for 5 marks in each section .*

SECTION-A

Data and File Structures

1.   Write a C program for Binary search algorithm to search value 29 from the list given below :

     1   9   15   28   36   49   58   **20**

SECTION-B

Networking

Perform the practical on LINUX/UNIX/WINDOWS 2000. In case you do not have sufficient access rights perform a task, then write all the steps to perform that task.

1. Run the following commands and write the uses of each command :   5

    (a) lpq

    (b) netdiag

    (c) fc

    (d) drivers

    (e) diskperf.

2. Create a hierarchical directory tree.   4

                                                        6

3. Enable and configure IPSec. Policy on local computer.

4. Add two users in a group and set their password and define permissions.   5

SECTION-C

DBMS LAB

1. Create the following table and perform the necessary task defined below : **5**

    (a) Create the following table named :

    Account

    -   AC - Number

    -   Name

    -   Type

    -   Bank

    -   Balance

    -   Min - Balance

    (b) Enter at least 8 records in the above table and answer the following queries using SQL : **15**

    (i) List name and account number of all the "Saving" account holder in "State Bank".

    (ii) Find the Balance of Account Number 11001100123

    (iii) List the name of account holder and account number which are having Balance less than 500.

SECTION-D

Java Programming

1. Write a multithreaded Java program, which create two thread T_1 and T_2 with priority   **20**
    6 and 7 respectively. T_1 should be used for printing 1, ...10 and T_2 should be used for
    printing 11,......20.

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No. of Printed Pages : **4**   SET - 1

MCA (REVISED)

Term-End Practical Examination

December, 2012   03885

MCSL-025 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours   *Maximum Marks : 100*

Note : There are **four** sections in this paper. Each section is of **45** minutes duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20** marks, and the **viva-voce** for each section is of 5 marks separately.

SECTION-A

Data and File Structures

1. Write a 'C' program to create a Binary Tree. Also Write a function to print this tree in inorder.   **20**

SECTION-B

Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

1. Run the following commands and write the uses of each command :   4

    (a) date

    (b) grep

    (c) rcp

    (d) drivers

2. Perform the following tasks :   9

    (a) Find your Ethernet Physical Address.

    (b) Add two users in a group and set their password.

    (c) Make a new directory and make it sharable.

3. Install and configure a client.   7

SECTION-C

DBMS LAB

1. Create the following table and perform the necessary task defined below : **5**

    (a) Create Table : Student

        (i) Roll - No.

        (ii) Name

        (iii) Date - of - Birth

        (iv) Programme

        (v) semester

        (vi) Address

        (vii) Year - of - Admission

    (b) Enter at least 10 records in the above table and answer the following queries **15** using SQL :

        (i) Find the name of all the students of MCA program whose date of birth is 01/01/1982.

        (ii) List the name and roll number of all the students who are enrolled in year 2012.

        (iii) List the name and address of all the students of BCA program.

SECTION-D

Java Programming

1. Write a Java program to create a product class, with methods to update and display   **20**
    product details. You may choose a product from the area of sports, Food, and Medicine.
    Use appropriate specifier for data members of your class.

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No. of Printed Pages : 4

SET - 2

MCA (REVISED)

Term-End Practical Examination

December, 2012   01285

MCSL-025 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours   Maximum Marks : 100

Note : *There are **four** sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20** marks and the **viva-voce** for each section is of 5 marks separately.*

SECTION-A

Data and File Structures

1. Write a 'C' program to create a circular queue and insert 10 element in it. Also write a function to check whether queue is empty or not.   20

SECTION-B

Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

1. Run the following commands and write the uses of each command : **4**

    (a) fc

    (b) netdiag

    (c) lable

    (d) rmdir

2. Perform the following tasks : **9**

    (a) Create a hierarchical directory tree.

    (b) Display the TCP/IP setting of your machine.

    (c) Send a mail to you - self

3. Configure the Internet connection Fire wall (ICF) **7**

SECTION-C

DBMS LAB

1. Create the following table and perform the necessary task defined below :   **5**

   (a)   Create the following table named DEPARTMENT

       (i)   Dep_ID

       (ii)   Name

       (iii) Year_Established

       (iv) Head_Name

       (v)   Address

       (vi) Telephone

       (vii) No_of_Employee

   (b)   Enter at least 10 records in the above table and answer the following queries   **15**
   using SQL :

       (i)   List the name and address of departments which are at least 50 years old.

       (ii)   Find the name of head of department of department id = 202.

       (iii) List name, address and telephone numbers of all the departments which
   are established after year 2010.

SECTION-D

Java Programming

1. Write a program in Java to create a Matrix class to create two matrices of   20 3×3. Also your program should add these two matrices and display the resultant matrix. Use appropriate constructor and access specifiers in your program.

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MCA (REVISED)

Term-End Practical Examination

December, 2012   01325

MCSL-025 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours   Maximum Marks : 100

Note :   There are **four** sections in this paper. Each section is of **45** minutes duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20** marks and the **viva-voce** for each section is of 5 marks separately.

SECTION-A

Data and File Structures

1. Write a 'C' program to implement Binary search. Search 25 in the following list of   **20** elements using this program.

    20   23   25   28   30   40   51

SECTION-B

Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

1. Run the following commands and write the uses of each command :   4

    (a) pathping

    (b) nettime

    (c) ipconfig

    (d) sfc

2. Perform the following tasks :   9

    (a) Display the TCP/IP setting of your machine

    (b) Write a message for all user - "Do well".

    (c) Copy a file named my. txt to some other directory from the current directory.

3. Configure TCP/IP packet - filter.   7

SECTION-C

DBMS LAB

1. Create the following table and perform the necessary tasks defined below :   5

   (a) Create the following table named Book :

      (i)   Tittle

      (ii)   ISBN – Number

      (iii) Author

      (iv)   Year - of - publication

      (v)   Publisher

      (vi)   Price

   (b) Enter at least 10 records in the above table and answer the following queries   15
        using SQL :

      (i)   List the title and ISBN – Number of all the books which are published in
             year 2012 by "Popular publisher".

      (ii)   List the title and price of all the books published by "ABC publisher".

      (iii) Find the authors name and price of book with ISBN – Number
             = "110056389".

SECTION-D

Java Programming

1. Write an applet in Java to calculate the simple interest. The applet takes the amount, rate of interest and duration in months. The applet display the interest amount after calculation.   **20**

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No. of Printed Pages : 4

MCA (REVISED)

Term-End Practical Examination

June, 2013

02788

MCSL-025 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours   *Maximum Marks : 100*

Note :   *There are **four sections** in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20** marks and the **viva-voce** for each section is of 5 marks separately.*

SECTION-A
Data and File Structures

1.   Write a C program to implement Binary Search Algorithm. Using this program search   **20**
     9 from the following list :

     1, 3, 6, 9, 12, 15, 18, 21, 24.

SECTION-B

Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

1. Run the following commands and write the uses of each command. 4

   (a) sfc   (b) hostname   (c) rcp   (d) diskperf

2. Perform the following tasks : 9

   (a) Create a file named My.TXT and copy it to another drive/ directory.

   (b) Create a user group with two users and set their password.

   (c) Show TCP/IP setting of your PC.

3. Install and configure a network printer. 7

SECTION-C

DBMS LAB

1. (a) Create the following table with proper data types for all the fields. The key field   8
is underlined. Insert 10 meaningful records in the table.

STUDENT   (Roll_No,   Name,   Program,   Date_of_Birth,   Semester,
year_of_ Admission)

(b) Answer the following queries using SQL on the above table :   12

(i)   List name and Roll number of all the MCA program students.

(ii)   List name and program of study of all the students whose date of birth is
01/09/1994 or after that.

(iii)   List name and Roll number of all the MCA program Third Semester students.

SECTION-D

Java Programming

1. Write a Java program which create a class named Account and derive Saving - Account 20 and Fixed - Account classes from it. Define appropriate constructors and methods to access account detail.

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No. of Printed Pages : 4

SET - 2

MCA (REVISED)

Term-End Practical Examination

June, 2013

01328

MCSL-025 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours   *Maximum Marks : 100*

Note :   *There are **four** sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20 marks** and the **viva-voce** for each section is of 5 marks separately.*

SECTION-A

Data and File Structures

1. Write a C program to create a linked list, insert 10 element to it and using a function print these elements.   **20**

SECTION-B

Networking

Perform the practicals on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

1. Run the following commands and write the uses of each command. **4**

   (a) netdiag   (b) chkdsk   (c) grep   (d) ping

2. Perform the following tasks : **9**

   (a) Find the roundtrip delay to a website www.ignou.ac.in

   (b) Connect to another machine using telnet.

   (c) Create a directory hierarchy to store file in more arranged manner.

3. View information of a registry of Windows 2000. Show how to add a value in registry. **7**
   Also store registry content in a file.

SECTION-C

DBMS LAB

1. (a) Create the following table with proper data type for all the fields. The key   8
field/attribute is underlined. Insert 10 meaningful records in this table.

PASSENGER (P_id, Name, Source, Destination, Distance, Sex, Age)

(b) Answer the following queries using SQL on the above table :   12

(i) List name and age of all the passengers whose age is more than 60 years and they are female.

(ii) List the name of passengers who are going from Delhi to Jaipur.

(iii) Find the name of those male passengers who are going to Delhi and their age is more than 35 but less than 50 years.

SECTION-D

Java Programming

1. Write a Java Program to create shape class. Derive circle and square   20
    classes from shape class. Define appropriate constructors for all the
    classes. Define a method Area( ) to find the area of the specific shape in
    shape class. Override Area( ) method in circle and square classes.

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No. of Printed Pages : 4

MCA (REVISED)

Term-End Practical Examination

June, 2013

00030

MCSL-025 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours   *Maximum Marks : 100*

Note :   *There are **four** sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20** marks and the **viva-voce** for each section is of 5 marks separately.*

SECTION-A

Data and File Structures

1.   Write a C program to create a stack data structure with Push, Pop and Overflow functions.   **20**
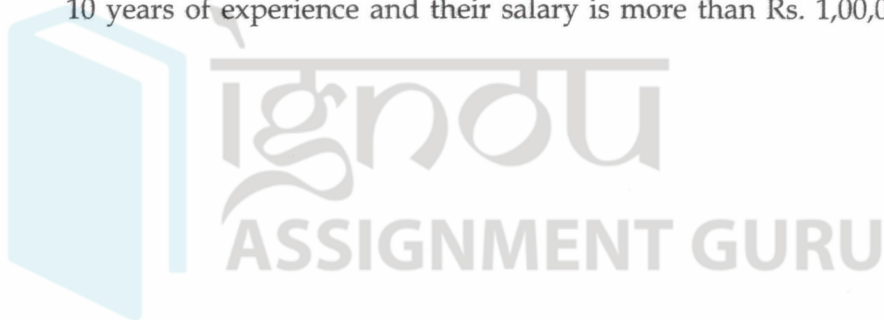
SECTION-B

Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

1. Run the following commands and write the use of each command :   4

   (a)   ipconfig   (b)   rmdir   (c)   net time   (d)   rsh

2. Perform the following tasks :   9

   (a)   Write a message for all the users - "All The Best".

   (b)   Find the list of devices available on your PC.

   (c)   Show all the TCP/IP settings.

3. Configure the Internet Connection Firewall (ICF).   7

SECTION-C

DBMS LAB

1. (a) Create the following table and perform the necessary task defined below :   **8**

TEACHER (ID, Name, Designation, Years _of_Experience, Subject, Salary)

Create above table with appropriate data type for all the fields. Key attribute is underlined. Insert 10 meaningful records in this table.

(b) Answer the following queries using SQL on above table.   **12**

(i) List name and designation of all the teachers whose salary is more than Rs. 50,000/pm and less than Rs. 85,000/pm.

(ii) List name and designation of all the teachers who are having more than 10 years of experience.

(iii) Find name and designation of those teachers who are having more than 10 years of experience and their salary is more than Rs. 1,00,000/pm.

SECTION-D

Java Programming

1. Write a Java program which create two threads T1 and T2. Name these threads as   **20**
    MyThread and YourThread. Set priority of MyThread to 7 and YourThread to 8. Also
    define a method to display name and priority to these threads.

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　　　　　　　　　　　　　　　　　　　　　　　SET - 1

MCA (REVISED)

Term-End Practical Examination　　00084

December, 2013

MCSL-025 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours　　　　　　　　　　　　　　*Maximum Marks :* **100**

Note :　*There are **four sections** in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20** marks and the **viva-voce** for each section is of 5 marks separately.*

SECTION-A
Data and File Structures

1.　Write a C program to create a circular Queue with its all functions :　　**20**

SECTION-B
Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

1.　Run The following commands and write the uses of each command :　　**4**
　　(a)　rsh　　(b)　grep　　(c)　netdiag　　(d)　drivers

2.　Perform the following tasks :
　　(a)　Create a *cron* job that send you a message "Are you there" after every　　**9**
　　　　10 minutes.
　　(b)　Install and configure a local printer.
　　(c)　Create a Hierarchical Directory Tree.

3.   Install and configure Windows 2000 Server.   7

SECTION-C
DBMS LAB

1.   (a)   Create the following table with proper data type for all the fields. The   8
              key field is underlined. Insert 10 meaningful records in this table.

              DOCTOR (D-id , Name, Sex, Specialization, Fee, Address)

      (b)   Answer the following queries using SQL on the above table :   12

              (i)   List all the male Doctors who are child specialist.

              (ii)   List the name and fee of all the female doctors who are
                     Gynaecologist.

              (iii) Find the name and address of the Dentist whose fee is minimum.

SECTION-D
Java Programming

1.   Write a Java program to Create a Faculty class and derive Assistant-   20
      Professor, Associate-Professor and Professor Classes from it. Define
      proper constructor for all the classes. Also define methods to show
      overloading and overriding features.

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No. of Printed Pages : **2**

SET - 2

MCA (REVISED)

Term-End Practical Examination

01914

December, 2013

MCSL-025 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours   *Maximum Marks :* **100**

Note :   *There are* **four sections** *in this paper. Each section is of* **45 minutes** *duration. Attempt only those sections in which you are* **not** *yet successful. Answer* **all** *the questions in each section. Each section carries* **20 marks** *and the* **viva-voce** *for each section is of 5 marks separately.*

SECTION-A
Data and File Structures

1. Write a C program to create stack data structure with **push** and **pop** functions. Also create a function to check whether stack is full or not.   **20**

SECTION-B
Networking

Perform the practicals on LINUX/UNIX/Windows 2000. In Case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

1. Run the following commands and write the uses of each command.   **4**
    (a) ipconfig   (b) rmdir   (c) pwd   (d) fc

2. Perform the following tasks :   **9**
    (a) view the TCP/IP setting
    (b) Display a sorted list of all the files in home directory that contain the word "MCA second Semester" inside them.
    (c) Add a user in an existing group.

3. Install the routing and remote access services for IP Routing 7

SECTION-C
DBMS LAB

1. (a) Create the following table with proper data types for all the fields. The key field is underlined. Insert 10 meaningful records in the table : 8

FLIGHT (<u>Flight-No</u>, source, Destination, Departure-Time, Airlines- Name, Fare, Distance)

(b) Answer the following queries using SQL on the above table : 12

(i) List Fare and Departure time of all the flights from Delhi to Mumbai.

(ii) Find the flight number and airline name which changes minimum fare from Mumbai to Pune.

(iii) List all the flights from Mumbai, to Jaipur for which scheduled departure time is 2:00 PM onwards.

SECTION-D
Java Programming

1. Write a Java program to create an Applet to generate table of 10. 20

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SET - 3

MCA (REVISED)

Term-End Practical Examination

00111

December, 2013

MCSL-025 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time allowed : 3 hours *Maximum Marks : **100***

Note : *There are **four sections** in this paper. Each section is of 45 **minutes** duration. Attempt only those sections in which you are **not** yet successful. Answer **all** the questions in each section. Each section carries **20 marks** and the **viva-voce** for each section is of 5 marks separately.*

SECTION-A

Data and File Structures

1.   Write a C program to implement Binary Search Algorithm. Using this program search   **20** the value 10 from the following list :

1, 2, 4, 6, 8, 11, 13, 15

SECTION-B

Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

1.   Run the following commands and write the uses of each command :   **4**

(a)   hostname   (b)   ping

(c)   Chkdsk   (d)   sfc

2. Peform the following tasks: **9**

(a) Create a file My. doc and save it on desk top.

(b) Remove a user from a group

(c) Show TCP/IP setting of your PC

3. Install and configure web Server.   **7**

SECTION-C

DBMS Lab

1. (a) Create the following table with proper data types for all the fields.   **8**
The key field is underlined. Insert 10 meaningful records in the

table :

ORDER (Order-Number, Item-code, Order-date, Quantity, Customer-
Address, cost)

(b) (i) List Item -code and Quantity for all the orders received on   **4**
02/02/2013; using SQL query on ORDER table.

(ii) Write a procedure/trigger to generate Order-Number   **8**
automatically in ORDER table.

SECTION-D

Java Programming

1. Create an Applet. to take radius of a circle as input and draw the circle.   **20**

_____

No. of Printed Pages : 4

MCSL-025(P)/S1

01412

MASTER OF COMPUTER APPLICATIONS (Revised) (MCA)
Term-End Practical Examination
June, 2014

MCSL-025(P)/S1 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time : 3 Hours

Maximum Marks : 100

Note : There are **four** sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer all the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.

SECTION A
Data and File Structures

1. Write a C program to implement stack data structure with all its functions. 20

SECTION B

Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps needed to perform that task.

4

2. Run the following commands and write the uses of each command :

   (a) ping

   (b) rcp

   (c) rsh

   (d) chkdsk

9

3. Perform the following tasks :

   (a) Find the sorted list of active users.

   (b) Configure TCP/IP filter.

   (c) Install network printer.

7

4. Show all the steps to install Rockwell Protocol Interface (RPI).

MCSL-025(P)/S1

SECTION C

DBMS Lab

5. (a) Create the following table with proper data type for all the fields. The key field is underlined. Insert 10 meaningful records in the table. *8*

BOOK (<u>ISBN</u>, Title, Author, Publisher, Pages, Price)

(b) Answer the following queries using SQL on the above table : *12*

(i) List all the books whose pages are more than 250 and price is less than ₹ 200.

(ii) Find the name of the author and the publisher of the book with ISBN = 12746923.

(iii) List all the titles and their price, published by "ANY BOOK Pvt. Ltd.".

SECTION D

Java Programming

6. Write a Java program to create two threads T1 and T2. Thread T1 is having priority *six* and thread T2 is having default priority assigned to it. Implement threads T1 and T2 in such a way that T1 prints table of 2 and T2 prints table of 5. *20*

No. of Printed Pages : 4 | MCSL-025(P)/S2

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)
Term-End Practical Examination
June, 2014

01285

MCSL-025(P)/S2 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note : *There are **four** sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer all the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A
Data and File Structures

1. Write a C program to implement Binary Search algorithm. Find whether the value 25 is available in the following list, using this program :   *20*

    20, 21, 21, 24, 25, 26, 27, 28, 40, 48, 50, 59, 100.

SECTION B

Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps needed to perform that task.

2. Run the following commands and write the uses of each command : 4

   (a) telnet

   (b) netdiag

   (c) rcp

   (d) grep

3. Perform the following tasks : 9

   (a) Create a **Cron** job that sends the message "Keep on working" to all the active users after every 30 minutes.

   (b) Configure a windows client as a VPN client.

   (c) Find all the lines in a file that contain the words "UNIX" or "LINUX".

4. Show all the steps for configuring the Internet Connection Firewall (ICF). 7

SECTION C

DBMS Lab

5. (a) Create the following tables with proper data type for all the fields. The key field is underlined. Insert 10 meaningful records in each table.   *8*

    TEACHER (T_id, D_id, Subject, Name, Date_of_birth, Years_of_Exp)

    DEPARTMENT (D_id, Address, D_Name, Total_No_of_Students)

    (b) Answer the following questions using SQL on the above table :   *12*

    (i) List the Name and D_Name of the teachers of Subject "Computer" who are having more than 2 years of experience.

    (ii) List the Name and Subjects of the teachers who are associated with the department where more than 200 students are registered.

    (iii) List the Name and Date_of_birth of all the "Physics" teachers.

SECTION D

Java Programming

6. Write a Java program to create an applet which takes area of a circle as input and draws the circle in blue color. *20*

MASTER OF COMPUTER APPLICATIONS (Revised)
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June, 2014

01060

MCSL-025(P)/S3 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB AND JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are **four** sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer all the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A
Data and File Structures

1. Write a C program to create Singly Linked List with all its methods. Also write a method to count the number of nodes in this Linked List.   *20*

SECTION B

Networking

Perform the practical on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps needed to perform that task.

2. Run the following commands and write the uses of each command :   *4*

    (a)   ftp

    (b)   hostname

    (c)   ipconfig

    (d)   drivers

3. Perform the following tasks :   *10*

    (a)   Find your Ethernet Physical Address.

    (b)   Add a new user in a group and define permissions.

    (c)   Send a mail to a group and to yourself.

    (d)   Set the execution time for a job to run it automatically after 5 minutes.

4. Perform encryption of a file on Windows 2000 server.   *6*

SECTION C

DBMS Lab

5. (a) Create the following table with proper data type for all the fields. The key field is underlined. Insert 10 meaningful records in the table. *8*

STUDENT (S_id, Name, Dep_Name, Age, Address, Programme, Marks)

(b) Answer the following questions using SQL on the above table : *12*

(i) List name and address of all the students who are more than 25 years old and registered in MCA programme.

(ii) Find Department name and Programme in which student with S_id = 1200012340.

(iii) List the name and address of all the students who are registered in BCA programme and having more than 75% marks.
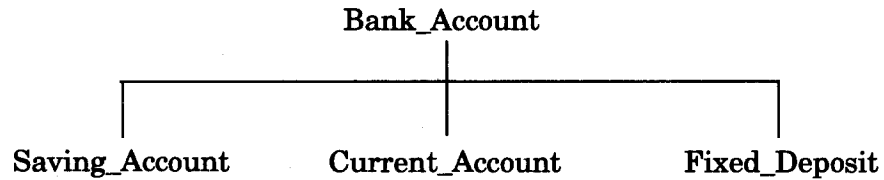
SECTION D

Java Programming

6. Write a Java program to implement the following class hierarchy : 20

Bank_Account

Saving_Account   Current_Account   Fixed_Deposit

Your implementation should include the following :

(i) Proper constructors for all the classes.

(ii) A polymorphic function Find_Balance ( ) to find the available balance in account.

(iii) Proper mechanism for exceptions handling.

No. of Printed Pages : 2

MCSL-025(P)/S1

MASTER OF COMPUTER APPLICATIONS (Revised)

(MCA)

02944

Term-End Practical Examination

December, 2014

MCSL-025(P)/S1 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are **four** sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer all the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1.   Write a program in 'C' language to implement "Queue".   20

SECTION B

Networking

2.   Write a shell script in LINUX / UNIX that accepts a text file as input and prints the last line as first line and so on to the standard output.   20

SECTION C

DBMS Lab

3. (a)   Create the following table with proper datatype for all the fields. The key field is underlined. Insert 10 meaningful records in the table.   *10*

    UNIVERSITY (Name, Place, No_of_Students, No_of_Courses)

    (b)   Answer the following query using SQL on the above table :

    List all the names of Universities where the number of students are more than 5,000.   *10*

SECTION D

Java Programming

4.   Write a program using JAVA to create an Applet that takes area of a Rectangle as input and draws the Rectangle in Green Colour.   *20*

MCSL-025(P)/S2

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)
Term-End Practical Examination
December, 2014

01444

MCSL-025(P)/S2 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note : *There are **four** sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer all the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A
Data and File Structures

1. Write a program in 'C' language to implement "Quicksort".   20

SECTION B
Networking

2. Write a shell script in LINUX / UNIX that accepts a text file as input and prints the number of words in the file that do not have a vowel in them.   20

SECTION C

DBMS Lab

3. (a) Create the following table with proper datatype for all the fields. The key field is underlined. Insert 10 meaningful records in the table.

TRAIN (Name, Number, First_Station, Last_Station)

10

(b) Answer the following query using SQL on the above table :

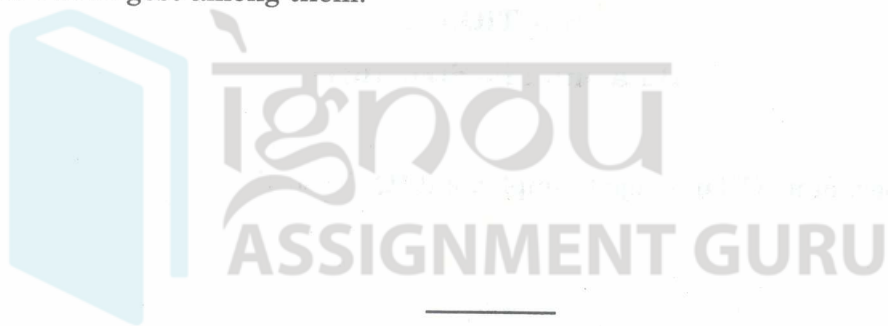List all the trains whose first station is Chennai and the last station is New Delhi.

10

SECTION D

Java Programming

4. Write a program in Java to create an Applet that accepts 5 integers as input and prints the largest among them.

20

| | MCSL-025(P)/S3 |

01204

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)
Term-End Practical Examination
December, 2014

MCSL-025(P)/S3 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are **four** sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer all the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A
Data and File Structures

1. Write a program in 'C' language to implement a Doubly Linked List.   *20*

SECTION B
Networking

2. Write a shell script in LINUX / UNIX that accepts a text file as input and prints the last word as first word and so on to the standard output.   *20*

SECTION C

DBMS Lab

3. (a) Create the following table with proper datatype for all the fields. The key field is underlined. Insert 10 meaningful records in the table. *10*

    MOBILE (Brand, Model_Number, Cost, Color)

    (b) Answer the following query using SQL on the above table :

    List the model numbers and corresponding prices of all mobile devices which are manufactured by "APPLE". *10*

SECTION D

Java Programming

4. Write a program in Java to create an Applet that accepts diameter of a circle as input and draws the circle in red colour. *20*

MCSL-025(P)/S1

MASTER OF COMPUTER APPLICATIONS (Revised)
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June, 2015

MCSL-025(P)/S1 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are **four** sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A
Data and File Structures

1. Write a program in 'C' language to implement "Stack".   20

SECTION B
Networking

2. Write a shell script in LINUX / UNIX that accepts a text file as input and prints the number of words whose length is exactly 5 characters.   20
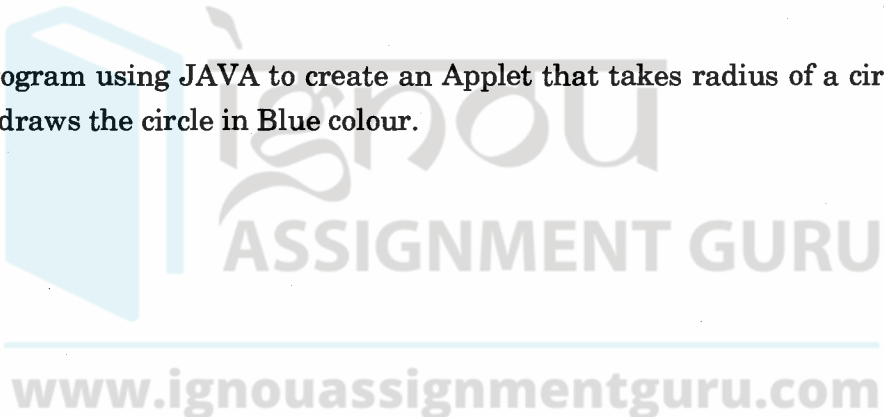
SECTION C

DBMS Lab

3. (a) Create the following table with proper datatype for all the fields. The key field is underlined. Insert 10 meaningful records in the table.   *10*

COUNTRY (Name, Capital, No_of_States)

   (b) Answer the following query using SQL on the above table :

   List all the names of countries whose number of states are more than 10.   *10*

SECTION D

Java Programming

4. Write a program using JAVA to create an Applet that takes radius of a circle as input and draws the circle in Blue colour.   *20*

MCSL-025(P)/S2

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)
Term-End Practical Examination
June, 2015

00973

MCSL-025(P)/S2 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours *Maximum Marks : 100*

Note : There are **four** sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.

SECTION A

Data and File Structures

1. Write a program in 'C' language to implement "Bubble Sort". 20

SECTION B

Networking

2. Write a shell script in LINUX / UNIX that accepts a text file as input and prints the number of words in the file that have a vowel in them. 20

SECTION C

DBMS Lab

3. (a) Create the following table with proper datatype for all the fields. The key field is underlined. Insert 10 meaningful records in the table. *10*

LAPTOP (Brand, <u>Model_no</u>, Screen_size)

(b) Answer the following query using SQL on the above table : *10*

List all the model numbers of all laptops whose screen size is larger than 17 inches.

SECTION D

Java Programming

4. Write a program in Java to create an Applet that accepts 5 strings as input and prints the string with largest length. *20*

MASTER OF COMPUTER APPLICATIONS (Revised)
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MCSL-025(P)/S3 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are **four** sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A
Data and File Structures

1.   Write a program in 'C' language to implement a Singly Linked List.   *20*

SECTION B
Networking

2.   Write a shell script in LINUX / UNIX that accepts a text file as input and prints the number of lines in it which have a semi-colon in them.   *20*

SECTION C

DBMS Lab

3. (a) Create the following table with proper datatype for all the fields. The key field is underlined. Insert 10 meaningful records in the table. *10*

EMPLOYEE (Name, <u>EmpID</u>, Salary, Age)

(b) Answer the following query using SQL on the above table : *10*

List the names of Employees whose salary is more than ₹ 50000/- and Age is less than 40 years.

SECTION D

Java Programming

4. Write a program in Java to create an Applet that accepts the name of a country as input and prints the name of its capital city as output. *20*

MCSL-025(P)/S1

MASTER OF COMPUTER APPLICATIONS (Revised) (MCA)

00069

Term-End Practical Examination

December, 2015

MCSL-025(P)/S1 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note : *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1. Write a program in 'C' language to implement a Deque.   **20**

SECTION B

Networking

2. Write a shell script in LINUX / UNIX that accepts a text file as input and prints each sentence in the text file in reverse order to the standard output.   **20**
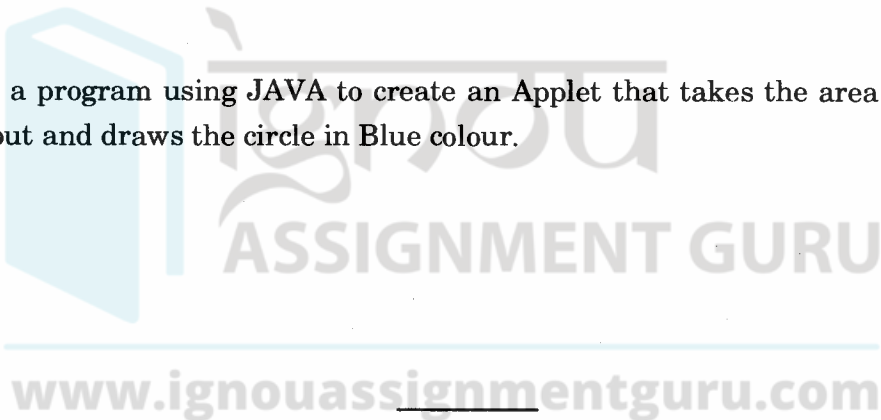
SECTION C

DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. *10*

LIBRARY (Book_Title, Author, Price, Pages)

(b) Answer the following query using SQL on the above table : *10*

List the titles of all books whose price is ₹ 1,000 only.

SECTION D

Java Programming

4. Write a program using JAVA to create an Applet that takes the area of a circle as input and draws the circle in Blue colour. *20*

MCSL-025(P)/S2

01049

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)
Term-End Practical Examination
December, 2015

MCSL-025(P)/S2 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours *Maximum Marks : 100*

Note : *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A
Data and File Structures

1. Write a program in 'C' language to implement Bubble Sort.   20

SECTION B
Networking

2. Write a shell script in LINUX / UNIX that accepts a text file as input and prints the number of words in the file that have a vowel in them.   20

SECTION C

DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. *10*

    CAR (Owner_name, <u>Number</u>, Colour)

    (b) Answer the following query using SQL on the above table : *10*

    List the numbers of all Cars whose colour is Blue and the Owner's name is "John".

SECTION D

Java Programming

4. Write a program in Java to create an Applet that accepts 10 integers as input and prints their average. *20*

MCSL-025(P)/S3

01256

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)
Term-End Practical Examination
December, 2015

MCSL-025(P)/S3 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours　　　　　　　　　　　　　　　*Maximum Marks : 100*

Note :　　*There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1.　　Write a program in 'C' language to implement a Circular Doubly Linked List.　　*20*

SECTION B

Networking

2.　　Write a shell script in LINUX / UNIX that accepts a text file as input and prints the set of words in the text file to standard output.　　*20*

SECTION C

DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table.   *10*

    COMPUTER (<u>Brand</u>, RAM, Screen_Size, OS)

    (b) Answer the following query using SQL on the above table :   *10*

    List the brands which have computers with Windows 7 as OS (Operating System).

SECTION D

Java Programming

4. Write a program in Java to create an Applet that accepts a string as input and prints whether it is a palindrome or not.   *20*

MCSL-025(P)/S1

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)
Term-End Practical Examination
June, 2016

03896

MCSL-025(P)/S1 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note : *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A
Data and File Structures

1. Write a program in 'C' language to implement a Queue. **20**

SECTION B
Networking

2. Write a shell script in Linux / Unix that accepts a text file as input and reverses all lower case alphabets to upper case and vice-versa and prints the text file to the standard output. **20**

SECTION C

DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions. *10*

BOOK (ISBN, Title, Author, Price)

(b) Create the following query using SQL on the above table : *10*

Find the name of the author and the price of the book with ISBN = 38674293.

SECTION D

Java Programming

4. Write a program using Java to create an applet that takes the area of a square as input and draws the square in green colour. *20*

MCSL-025(P)/S2

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

03206

Term-End Practical Examination

June, 2016

MCSL-025(P)/S2 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1. Write a program in 'C' language to implement Quick Sort.   *20*

SECTION B

Networking

2. Write a shell script in Linux / Unix that accepts a text file as input and prints the number of words that do not have a vowel in them.   *20*

SECTION C

DBMS Lab

3. (a) Create the following tables with appropriate data types for all the fields. The key field is underlined. Insert 5 meaningful records in each table. *10*

TEACHER (T_ id, D_id, Subject, Name, Date_of_birth, Years_of_Exp)

DEPARTMENT (D_id, Address, D_Name, Total_No_of_Students)

(b) Create the following query using SQL on the above tables : *10*

List the Name and D_Name of the teachers of subject "MATHEMATICS" who have more than 5 years of experience.

SECTION D

Java Programming

4. Write a program using Java to create an applet that accepts a string as input and prints it in reverse order. *20*

No. of Printed Pages : 2

MCSL-025(P)/S3

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

01805

Term-End Practical Examination
June, 2016

MCSL-025(P)/S3 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   Maximum Marks : 100

Note : *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A
Data and File Structures

1. Write a program in 'C' language to implement a Doubly Linked List. *20*

SECTION B
Networking

2. Write a shell script in Linux / Unix that accepts a text file as input and prints the number of lines in it which have more than 5 words. *20*

SECTION C
DBMS Lab

3.   (a)   Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions.   *10*

          STUDENT (S_id, Name, Dep_Name, Age, Address, Programme, Marks)

   (b)   Create the following query using SQL on the above table :   *10*

          List the names and addresses of all the students who are less than 25 years old and registered in the MCA programme.

SECTION D
Java Programming

4.   Write a program using Java to create an applet that accepts 5 integers as input and prints them in ascending order.   *20*

MCSL-025(P)/S1

02873

MASTER OF COMPUTER APPLICATIONS (Revised) (MCA)
Term-End Practical Examination
December, 2016

MCSL-025(P)/S1 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A
Data and File Structures

1.   Write a program in 'C' language to implement a Deque.   *20*

SECTION B
Networking

2.   Write a shell script in Linux / Unix that accepts a text file as input and prints all lines which have at least one number to the standard output.   *20*

SECTION C

DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions. *10*

    UNIVERSITY (Name, State, Country, Total_No_of_Students)

    (b) Create the following query using SQL on the above table : *10*

    List the names of all Universities which are having more than 20000 students.

SECTION D

Java Programming

4. Write a program using Java to create an Applet that takes the area of a Rectangle as input and draws the Rectangle in Blue colour. *20*

MCSL-025(P)/S2

01543

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)
Term-End Practical Examination
December, 2016

MCSL-025(P)/S2 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A
Data and File Structures

1.   Write a program in 'C' language to implement Bubble Sort.   *20*

SECTION B
Networking

2.   Write a shell script in Linux / Unix that accepts a text file as input and prints all such words of the text file to standard output whose first character is in upper case.   *20*
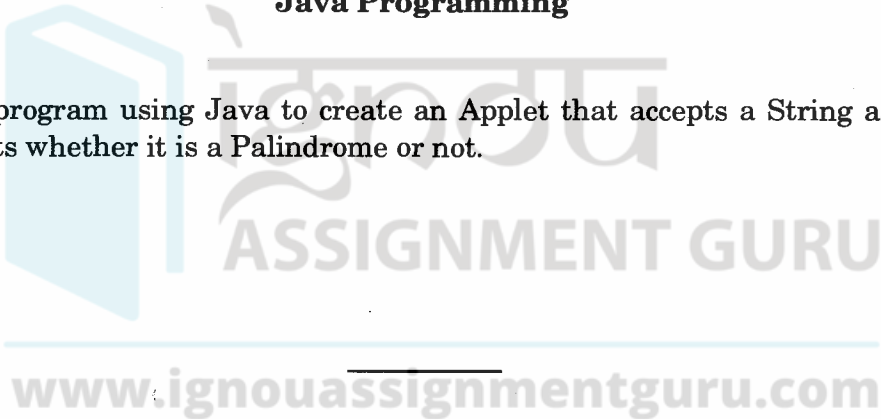
SECTION C

DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions. *10*

   TRAIN (Name, Number, Start_Station, Last_Station)

   (b) Create the following query using SQL on the above table : *10*

   List the numbers and names of all trains which start from New Delhi and whose last station is at Visakhapatnam.

SECTION D

Java Programming

4. Write a program using Java to create an Applet that accepts a String as input and prints whether it is a Palindrome or not. *20*

MCSL-025(P)/S3

00603

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)
Term-End Practical Examination
December, 2016

MCSL-025(P)/S3 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A
Data and File Structures

1.   Write a program in 'C' language to implement a Singly Linked List.   20

SECTION B
Networking

2.   Write a shell script in Linux / Unix that accepts a text file as input and prints the number of sentences in it.   20

SECTION C

DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions. *10*

COUNTRY (<u>Name</u>, President, Area, Continent)

(b) Create the following query using SQL on the above table : *10*

List all countries in Asia.

SECTION D

Java Programming

4. Write a program using Java to create an Applet that accepts 5 integers as input and prints them in descending order. *20*

MASTER OF COMPUTER APPLICATIONS (Revised) (MCA)

Term-End Practical Examination

June, 2017

03173

MCSL-025(P)/S1 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all the** questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1.   Write a 'C' program to implement Linear search algorithm. Find whether the value 30 is available in the following list, using the program :   *20*

         61, 75, 83, 100, 30, 45, 86, 93, 29, 99

SECTION B

Networking

Perform the practicals in LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

2.   Run the following commands and write the uses of each command :   *4*

      (a)   ipconfig

      (b)   chkdsk

      (c)   ping

      (d)   grep

3. Perform the following tasks :   *9*

    (a) Write a message to a specific user — "Best of Luck".

    (b) Connect to another machine using TELNET.

    (c) Show all the TCP/IP settings.

4. Configure the Internet Connection Firewall (ICF).   *7*

SECTION C

DBMS Lab

5. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table.

    Railway_Station (City, Name_of_Station, Platforms)   *10*

    (b) Answer the following query using SQL on the above table :   *10*

    List the names of stations which are having more than 10 platforms.

SECTION D

Java Programming

6. Write a program using Java to create an Applet that takes the radius of a circle as input and prints its area.   *20*

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No. of Printed Pages : 2

MCSL-025(P)/S2

MASTER OF COMPUTER APPLICATIONS (Revised) (MCA)

01003

Term-End Practical Examination

June, 2017

MCSL-025(P)/S2 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours

Maximum Marks : 100

Note :   *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1.   Write a program in 'C' language for the implementation of a Dequeue.   *20*

SECTION B

Networking

Perform the practicals on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

2.   Run the following commands and write the uses of each command :   *4*

   (a)   nettime

   (b)   rsh

   (c)   rmdir

   (d)   netdiag

3. Perform the following tasks : *9*

    (a)   Find the list of devices available on your PC.

    (b)   Find the roundtrip delay to a website mygov.in.

    (c)   Create a directory hierarchy to store files in a more arranged manner.

4. View information of a registry of Windows 2000. Show how to add a value in registry. Also, store registry content in a file. *7*

SECTION C

DBMS Lab

5. (a) Create the following table with appropriate data types for all the fields. Insert 10 meaningful records into the table. *10*

        Automobile (Type, Brand, Cost)

    (b) Answer the following query using SQL on the above table : *10*

        List those brands which manufacture Four-wheelers.

SECTION D

Java Programming

6. Write a program in Java to create an Applet that accepts a string as input and counts the number of vowels in it. *20*

MASTER OF COMPUTER APPLICATIONS (Revised) (MCA)

Term-End Practical Examination

01244

June, 2017

MCSL-025(P)/S3 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours *Maximum Marks : 100*

Note : *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1. Write a program in 'C' language to create a Doubly Linked List. *20*

SECTION B

Networking

Perform the practicals on LINUX/UNIX/Windows 2000. In case you do not have sufficient rights to perform a task, then write all the steps to perform that task.

2. Run the following commands and write the uses of each command : *4*

   (a) chkdsk

   (b) rcp

   (c) ping

   (d) rsh

3.   Perform the following tasks :   *9*

    (a)   Create a file named XYZ.txt and copy it to another drive/directory.

    (b)   Create a user group with two users and set their password.

    (c)   Show TCP/IP setting of your PC.

4.   Install and Configure a network printer.   *7*

SECTION C

DBMS Lab

5.   (a)   Create the following table with appropriate data types for all the fields.
           Insert 10 meaningful records into the table :   *10*

           LIBRARY (INSTITUTE, NUMBER_OF_BOOKS, OPENING_TIME)

    (b)   Answer the following query using SQL on the above table :   *10*

           List the names of Institutes whose Libraries are having at least
           10000 books.

SECTION D

Java Programming

6.   Write a program in Java to create an Applet that accepts a string as input and
      checks whether it is a palindrome or not.   *20*

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MCSL-025(P)/S1

MASTER OF COMPUTER APPLICATIONS (Revised) (MCA)

Term-End Practical Examination

December, 2017

00773

MCSL-025(P)/S1 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1. Write a program in 'C' language to implement two stacks in an Array. Make necessary assumptions.   *20*

SECTION B

Networking

2. Write a shell script in Linux/Unix that accepts a text file as input and prints all such words of the text file to standard output which have at least one vowel.   *20*

SECTION C

DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions.

SCHOOL (Name, City, Uniform_Color, Total_Students) *10*

(b) Create the following query using SQL on the above table : *10*

List the names of all schools which have more than 1000 students and Blue uniform.

SECTION D

Java Programming

4. Write a program using Java to create an Applet that takes the sides of a triangle and draws the triangle in Red color. *20*

MCSL-025(P)/S2

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MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

Term-End Practical Examination

December, 2017

MCSL-025(P)/S2 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1.   Write a program in 'C' language to implement two-way Merge Sort.   *20*

SECTION B

Networking

2.   Write a shell script in Linux/Unix that accepts a text file as input and prints all lines which have "$" character in them.   *20*

SECTION C
DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions. *10*

   FLIGHT (Number, From, To, Capacity)

   (b) Create the following query using SQL on the above table : *10*

   List the flight numbers which have a carrying capacity of more than 180 and will travel to New Delhi. Make necessary assumptions.

SECTION D
Java Programming

4. Write a program using Java to create an Applet that accepts a string as input and prints the number of vowels in it. *20*

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No. of Printed Pages : 2

MASTER OF COMPUTER APPLICATIONS (Revised) (MCA)

Term-End Practical Examination

December, 2017

01373

MCSL-025(P)/S3 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note : *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1. Write a program in 'C' language to implement a Doubly Linked List.   *20*

SECTION B

Networking

2. Write a shell script in Linux/Unix that accepts a text file as input and prints the number of lines in it.   *20*

SECTION C

DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions. *10*

   CITY (Name, Mayor, Area, Number_of_Citizens)

   (b) Create the following query using SQL on the above table : *10*

   List the name of the Mayor of the city which has a population of more than 100000. Make necessary assumptions.

SECTION D

Java Programming

4. Write a program using Java to create an Applet that accepts two integers and the operation to be performed such as −, +, ∗, /. Then, the result shall be printed. *20*

MCSL-025(P)/S1

MASTER OF COMPUTER APPLICATIONS (Revised) (MCA)

Term-End Practical Examination

June, 2018

MCSL-025(P)/S1 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours *Maximum Marks : 100*

Note : *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1. Write a program in 'C' language to implement a Queue. 20

SECTION B

Networking

2. Write a shell script in Linux/Unix that accepts a text file as input and counts the number of words in the file which do not consist of vowels. 20

SECTION C
DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions.   *10*

UNIVERSITY (Name, Place, Total_Students)

(b) Create the following query using SQL on the above table :   *10*

List the names of all Universities in Delhi.

SECTION D
Java Programming

4. Write a program using Java to create an Applet that accepts a string as input and prints the string in reverse.   *20*

No. of Printed Pages : 2

MCSL-025(P)/S2

MASTER OF COMPUTER APPLICATIONS (Revised) (MCA)

00515

Term-End Practical Examination

June, 2018

MCSL-025(P)/S2 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note : *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1.   Write a program in 'C' language to implement Bubble sort.   *20*

SECTION B

Networking

2.   Write a shell script in Linux/Unix that accepts a text file as input and prints only those sentences which are having at least 6 words in them.   *20*

SECTION C

DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions. *10*

    TRAIN (Name, <u>Number</u>, Starting_Station)

    (b) Create the following query using SQL on the above table : *10*

    List the Names and Numbers of all the trains that are starting from Chennai.

SECTION D

Java Programming

4. Write a program using Java to create an Applet that takes the sides of a rectangle and draws the rectangle in red color. *20*

MCSL-025(P)/S3

MASTER OF COMPUTER APPLICATIONS (Revised) (MCA)

Term-End Practical Examination

June, 2018

01275

MCSL-025(P)/S3 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES, NETWORKING, DBMS LAB & JAVA PROGRAMMING)

Time : 3 Hours   *Maximum Marks : 100*

Note :   *There are four sections in this paper. Each section is of **45 minutes** duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

SECTION A

Data and File Structures

1.   Write a program in 'C' language to implement Binary Search.   *20*

SECTION B

Networking

2.   Write a shell script in Linux/Unix that accepts a text file as input and prints its content in reverse order to standard output. That is, first line will become last line and so on.   *20*

SECTION C

DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions. *10*

    COUNTRY (<u>Name</u>, Capital, Population)

    (b) Create the following query using SQL on the above table :

    List the capital cities of all countries whose population is more than 5,00,00,000. *10*

SECTION D

Java Programming

4. Write a program using Java to create an Applet that accepts two matrices as input and adds them. The resultant matrix has to be printed to standard output. *20*

156443

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MCSL-025/S1

Master of Computer Application (Revised) (MCA) Term-End Examination December, 2018

LABORATORY COURSE

Time : 3 Hours
Maximum Marks : 100

Note : (i) There are four Sections in this paper.

(ii) Each Section is of 45 minutes duration.

(iii) Attempt only those Section(s) in which you are not yet successful.

(iv) Answer *all* the questions in each Section.

(v) Each Section carries 20 marks and the viva-voce for each Section is of 5 marks separately.

(A-8) P. T. O.

[2]

Section—A

(Data and File Structures)

1. Write a program in 'C' language to implement a stack.　　20

Section—B

(Networking)

2. Write a shell script in Linux/Unix that accepts a text file as input and prints those sentences which have more than 6 words to standard output.　　20

Section—C

(DBMS Lab)

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions.　　10

   Library (Book_Title, Cost, ISBN_Number)

   (b) Create the following query using SQL on the above table :　　10

   List the names of all Books whose cost is between ₹ 1,000 and ₹ 2,000.

Section—D

(Java Programming)

4. Write a program using Java to create an Applet that accepts a string as input and checks the string if it is a palindrome or not.　　20

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(A-8)

159333

No. of Printed Pages : 2 **MCSL-025/S2**

Master of Computer Application (Revised) (MCA)

Term-End Examination

December, 2018

LABORATORY COURSE

Time : 3 Hours *Maximum Marks : 100*

Note : (i) There are four Sections in this paper.

(ii) Each Section is of 45 minutes duration.

(iii) Attempt only those Section(s) in which you are not yet successful.

(iv) Answer *all* the questions in each Section.

(v) Each Section carries 20 marks and the viva-voce for each Section is of 5 marks separately.

(A-8) P. T. O.

[2]

Section—A

(Data and File Structures)

1. Write a program in 'C' language to implement quick sort.   20

Section—B

(Networking)

2. Write a shell script in Linux/Unix that accepts a text file as input and prints the frequency of each word to standard output.   20

Section—C

(DBMS Lab)

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions.   10

SPORTS

(Captain, Sport_Name, Team_Size)

(b) Create the following query using SQL on the above table :

List the name of at least one sport whose team size is 11.

Section—D

(Java Programming)

4. Write a program using Java to create an Applet that takes the sides of a triangle and draws the triangle in Blue Color.   20

161373

No. of Printed Pages : 2

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Master of Computer Application (Revised) (MCA)

Term-End Examination

December, 2018

LABORATORY COURSE

Time : 3 Hours

Maximum Marks : 100

Note : (i) There are *four* Sections in this paper.

(ii) Each Section is of 45 minutes duration.

(iii) Attempt only those Sections in which you are not yet successful.

(iv) Answer all the questions in each Section.

(v) Each Section carries 20 marks and the viva-voce for each Section is of 5 marks separately.

(A-9) P. T. O.

Section-A

(Data and File Structures)

1. Write a program in 'C' language to implement Linear Search.　　20

Section-B

(Networking)

2. Write a shell script in Linux/Unix that accepts a text file as input and prints the number of words in it which are palindrome.　　20

Section-C

(DBMS Lab)

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions.　　10

CAR (Name, Manufacturer, Cost, Number)

(b) Create the following query using SQL on the above table :

List the numbers of cars whose cost is more than Ten Lakh Rupees and less than Fifty Lakh Rupees.　　10

Section-D

(Java Programming)

4. Write a program in Java that accepts two matrices as input and multiply them.　　20