P3425

[5081] - 101
P.G.D.C.M. (Semester - I)
ELEMENTS OF INFORMATION TECHNOLOGY AND OFFICE AUTOMATION
Windows operating system and Ms office
(2013 Pattern)

Time : 3 Hours]   *[Max. Marks :50*

Instructions to the candidates:
   1)   *All questions are compulsory.*
   2)   *Figures to right indicate full marks.*

Q1) Answer the following :   **[10]**

   a) $(156)_{10} = (?)_2$

   b) $(864)_8 = (?)_{10}$

Q2) Answer the following (any one) :   **[10]**

   a)   Define operating system? Explain its function.

   b)   Draw and explain block diagram of computer in Brief.

Q3) Answer the following (any one) :   **[10]**

   a)   Explain AND, Not logical gates.

   b)   Explain Batch and Real time processing with example.

Q4) Answer the following (any one) :   **[10]**

   a)   Explain any five functions of microsoft word.

   b)   Explain usage of file manager in MS. windows.

P.T.O.

Q5) Write short notes (any two) : [5+5]

    a)   MICR

    b)   Importance of GUI.

    c)   Status Bar

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[5081]-102
PGDCM
102 : Programming Using VISUAL BASIC
(2013 Pattern)

Time : 3 Hours]   *[Max. Marks : 50*

Instruction :
   All questions are compulsory.

Q1) Give output for the following section of code and explain it: (Any five) **[10]**

   a)   Dim i as integer. n as integer

       do until n = 10

       if n < = 0 Then Exit do

       n = n – 1

       i = i + 1

       loop

       Msg Box ("The Loop run" &i & "times")

   b)   Dim i as integer

       Dim j as integer

       for i = 1 to 3

       for j = 1 to 5
       print "*"

       next

       i = i + 2

       next

   c)   Dim dt as Date

       dt = date Add ("m", 3, #12/12/2009#)

       print dt

       dt = date Serial (2008, 22,11)

       print dt

d) Dim arr(7) as integer. n as integer

    n = 1

    for i = 0 to 6

    j = n *n

    a(i) = j

    print a(i)

    n = n + 1

    next

e) Dim j $

    print Var Type(j)

    print type name(j)

    print Len (j)

f) Dim a(4) as integer

    Redim a(3)

    a(1) = 10

    a(2) = 20

    a(3) = 10

    print a(1) + a(2) + a(3)

Q2) Explain properties of the following controls : (Any two)   **[10]**

a) Checkbox

b) Listbox

c) Scrollbar

d) Image

Q3) Write short notes : (Any two)   **[10]**

a) Control Array

b) Common Dialog Box

c) Loops used in Visual Basic

d) Conversion Functions with example

Q4) Solve any two from the following :　　　　　　　　　　　　　　　**[20]**

a)　Write a code to accept 15 numbers from user, to find out

　　Maximum, Minimum and Average of them. (Use Array)

b)　Create a form with one textbox and one timer. After every two seconds
　　the textbox background colour will change to

　　Red/Green/Blue continuously.

c)　Write a VB Code to accept Name and Password from user, when the
　　command button "Login" is clicked, display "Hello! Friends"

　　message if user name and password is correct, else display

　　"Sorry, wrong password entered".

d)　Accept two numbers from user and print all odd and even numbers
　　between them.

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[5081] - 103
P.G.D.C.M. (Semester - I)
103 : INTRODUCTION TO C AND C++ LANGUAGE
(2013 Pattern)

Time : 3 Hours]   *[Max. Marks :50*

Instructions to the candidates:

    1)   *Q. No. 1 and 5 are compulsory.*

    2)   *Solve any two questions from 2 to 4.*

    3)   *Figures to the right indicate full marks.*

Q1) Write output of following programs with explanation   **[10]**

```
#include<stdio.h>
int main()
{
    char ch;
    if(ch = printf(""))
        printf("lt matters\n");
    else
        printf("It doesn't matters\n");
    return 0;
}
#include<stdio.h>
Void main ( )
{
    int i, j=9;
    for ( ; ; )
    printf ("%d", j);
}
```

Q2) Write a program in C++ to accept base & height of triangle & calculate the Area of triangle.   **[10]**

Q3) Differentiate between   **[10]**

    a)   Call by value and call by reference.

    b)   Continue and break statements.

Q4) Write a program in C to calculate sum of 5 subjects its average and find percentage. **[10]**

Q5) Write Short Notes (Any four) : **[20]**

    a)   Standard library string function: strlen( ), strcat( ), strcpy( ), strcmp( ).

    b)   Iterative/Looping statements of C.

    c)   Friend functions in C++.

    d)   Hybrid Inheritance with example in C++.

    e)   Constructors and destructors.

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[5081] - 201

P.G.D.C.M. (Semester - II)

201 : WEB TECHNOLOGY INCLUDING E-COMMERCE,
HTML & BASIC JAVA

(2013 Pattern)

Time : 3 Hours]   *[Max. Marks :50*

Instructions to the candidates:

    1)   *Q.1 is compulsory.*

    2)   *All questions carry equal marks.*

Q1) What is E-commerce? Enlist benefits of E-commerce? Explain how E-commerce works? **[10]**

Q2) Attempt the following (any one) : **[10]**
    a)   Explain applet life cycle in detail.
    b)   Define the term package. Explain concept of package with java program.

Q3) Attempt the following (any one) : **[10]**
    a)   Explain any four AWT components.
    b)   Define class circle & write java code to display area of circle. Assume suitable data.

Q4) Attempt the following (any one) : **[10]**
    a)   Explain Encapsulation & polymorphism concepts of object oriented programming with example.
    b)   What is javascript? Explain advantages of javascript.

Q5) Write short notes on (any two) : **[2 × 5 = 10]**
    a)   Abstract classes
    b)   Grid layout
    c)   Inheritance in java

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[5081] - 202
PGDCM (Semester - II)
SOFTWARE ENGINEERING
(2013 Pattern)

Time : 3 Hours]   *[Max. Marks :50*

Instructions to the candidates:

    1)   *All question are compulsory.*

    2)   *Figures to the right indicate full marks.*

Q1) Attempt the following (any one) :   **[10]**

    a)   Explain SDLC in detail.

    b)   Draw ER diagram & database design for purchose order system.

Q2) Attempt the following (any one) :   **[10]**

    a)   What are the skills that an analyst possess? Explain.

    b)   Draw context level diagram for bank fixed deposite system. Design format of fixed deposite receipt.

Q3) Attempt the following (any one) :   **[10]**

    a)   Explain waterfall model in detail.

    b)   Fitness centre is a Health club offering Health services such as fully equipped gym, instructions in aerobics, yoga and proper diet. Pople from various age groups join club. The club provides various programs such as weight loss, weight increase, fitness etc. depending on their needs. Health club caters to members needs by keeping in mind their condition of health.

        i)   Draw first level DFD

        ii)   Draw ERD.

P.T.O.

Q4) Attempt the following (any one) :   **[10]**

    a)   Draw decision table & decision tree for the students marks. It marks $>= 70$ give distriction, if marks $>= 60$ first class, if marks $>= 50$ second class, if marks $>= 40$ give pass class otherwise FAIL.

    b)   Explain normalization with its types in detail.

Q5) Write short notes (any two) :   **[2 × 5 = 10]**

    a)   4 CL

    b)   Pseudo code

    c)   DFD components

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[5081] - 203

P.G.D.C.M. (Semester - II)

DATABASE MANAGEMENT SYSTEM & ORACLE

(2008 & 2013 Pattern)

Time : 3 Hours]   *[Max. Marks :50*

Instructions to the candidates:

1) *Que. 1 is compulsory.*
2) *Attempt any three from remaining.*
3) *Figures to the right indicate full marks.*

Q1) Solve the following SQL queries

supplier (sid : int, sname : char, age : int, address : char, city : char, mailid : char)

Supply (sid : int, pid : int, selldate : date, sellprice : real)

Parts (pid : int, pname : char, colour : char, costprice : real)

a)   Create above tables with proper constraints.   **[5]**

b)   Display supplier details who supplies. red colour parts.   **[3]**

c)   Get the details of parts which are supplied on either '20 August 2014' or '25 August 2014'.   **[3]**

d)   Obtain supplier who supplied more than 5 parts.   **[3]**

e)   Display supplier name who supplies 'red' colour part but not green colour part.   **[3]**

f)   Display parts which are supplied by both 'Mr. Rajesh' and 'Mr. Sujit'?
                                                                  [3]

Q2) a)   Compare HDB, NDB & RDB.   **[5]**

b)   Explain ER model with example.   **[5]**

Q3) Explain Joins in oracle.   **[10]**

P.T.O.

Q4) Explain E.F. CODD's Rule. **[10]**

Q5) Explain 1NF, 2NF & 3NF with example. **[10]**

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