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P.G.D.C.M

101:ELEMENTS OF INFORMATION TECHNOLOGY AND OF-FICE AUTOMATION

(Window Operating System and M.S Office)

(2008 Course) (Semester- I)

Time : 3 Hours]   *[Max. Marks : 70*

Instructions to the candidates:

   1)   *Q. 1 is compulsory.*

   2)   *Solve any four questions from the remaining.*

   3)   *Figure to the right indicates full marks.*

SECTION-I

Q1) a)   Convert   **[4]**

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

        ii) $(632)_8 = (?)_{10}$

     b)   Explain types of data processing.   **[5]**

     c)   Explain generations of computer.   **[5]**

Q2) a)   What is computer? Explain with block diagram.   **[7]**

     b)   Explain mail merge procedure in MS Word with example.   **[7]**

Q3) a)   Define booting.Explain booting process of computer.   **[7]**

     b)   Differentiate between compiler and interpreter.   **[7]**

Q4) a)   Explain statistical and mathematical functions used in excel.   **[7]**

     b)   Explain MS-outlook features & Functions.   **[7]**

Q5) Define operating system & list the Functions of Operating systems.

Explain the difference between Microsoft window & DOS. **[14]**

Q6) Write notes any two **[14]**

    a)   Virus

    b)   Secondary storage devices

    c)   Generations of computer

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P.G.D.C.M.
102 : PROGRAMMING USING VISUAL BASIC
(2008 Pattern) (Semester-I)

Time : 3 Hours]   *[Max. Marks : 70*
Instructions to the candidates:
   1)   *All questions are compulsory.*
   2)   *Figures to the right indicate full marks.*

Q1) Give output for following section of code and explain (Any Five):   **[20]**

   a)   Dim i as Integer

        i = 2.67

        Print Round(i)

   b)   dim check As Integer

        check = StrComp("aB", "a", vbBinaryCompare)

        print check

        print(cbool(check))

   c)   Const PI As Single = 3.14

        Print PI + 3

        Print PI

   d)   Msgbox "Hi.. I am doing post Graduation"

   e)   Dim a, b as Integer

        a = 10

        b = 20

        msgbox "Division =" & a/b

        Print a\b

   f)   nm = "Atul"

        If (nm>"Arjun") then

            Print nm

        else

            Print "Ashok"

Q2) Explain the following properties (Any Five): **[10]**

    a) Columns property of listbox.

    b) Style property of CommandButton.

    c) Stretch property of Image.

    d) Locked property of ComboBox.

    e) Wordwrap property of Label.

    f) DataSource property of TextBox.

Q3) Write a sectional code for the following (Any Four): **[20]**

    a) Write a code to check whether give number prime or not.

    b) Write a user defined function which accepts a string and check whether it's palindrome or not.

    c) Write a code which accepts names of 4 cities and add it in comboBox. After the user select a city from comboBox remove it from comboBox.

    d) Write a code which will create a menubar having options circle, rectangle and will give area of selected menu option.

    e) Write a code to accept birth date and display his/her age.

Q4) Write short notes on (Any Four): **[20]**

    a) Events.

    b) Mathematical Functions.

    c) Toolbars.

    d) Control Statements.

    e) Control Array.

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P.G.D.C.M.

103: INTRODUCTION TO C AND C++ LANGUAGE

(2008 Course) (Semester - I)

Time : 2 ½ Hours] *[Max. Marks : 50*

Instructions to the candidates:

   1)   *All questions are compulsory.*

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

Q1) Find and explain output of the following programs.   **[2×5 = 10]**

   a)

```
# include <stdio.h>

# include < conio.h>

void main ( )

{

int i,j;

clrscr ( );

for (i = 1; i < =3 ; i++)

{

for (j = i; j < = 5; j++)

printf("%d", j);

printf ("\n");

}

getch ( );

}
```

b)

```
# include < iostream.h >
# include < conio.h>
void main ( )
{
clrscr ( );
char s [ ] = "OBJECT";
int i;
for (i = 0; s[i]; i++)
cout < < "\n"<<s[i++] <<* (s+i++) <<* (i+s) <<i[s];
getch ( );
}
```

Q2) Attempt the following Questions (Any Two).   **[2×5 = 10]**

   a)   Explain arrays in C.

   b)   Differentiate Break and continue statement with example.

   c)   Explain Constructors & destructors of C++ with an example.

Q3) Attempt the following Questions (Any Two).   **[2×5 = 10]**

   a)   Write C code to display following pattern:

```
        *
      *   *
    *   *   *
  *   *   *   *
*   *   *   *   *
*   *   *   *   *   *
```

   b)   Write a program in C to accept radius of circle and to display its diameter, perimeter & area.

        Hint: Diameter is twice of radius

        Perimeter is 6.28 times radius &

        Area is 3.14 times square if radius.

c) Write a program in C++ to display Fibonacci series:

0   1   1   2   3   5   8   13   21   34 ....

Hint: Sum of previous two terms make the next term.

Q4) Attempt the following Questions (Any Two).   **[2×5 =10]**

a) Differentiate between local & global variables.

b) Explain any five manipulators with suitable example.

c) Write a program in C++ to accept a digit and to display it in words.
E.g. 3 THREE.

Q5) Write Short Note On (Any Two).   **[2×5 =10]**

a) exit statement in C

b) Function Overloading

c) Friend function and Friend Class

d) Encapsulation

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P. G .D. C. M.(WEB TECHNOLOGY)
(201)INCLUDING E-COMMERCE,HTML AND BASIC JAVA
(2008Pattern) (Semester-II)

Time : 3 Hours]   *[Max. Marks : 70*

Instructions to the candidates:
   1)   Question No.7 is compulsory.
   2)   Solve any five from Q. Nos. 1 to 6.
   3)   Wirte your assumptions if any.

Q1) What is WWW? What is HTML? Explain the following tags. **[10]**

   a)
      b) <th>   c) <body>   d) <hr>

Q2) What is E-Commerce? How it works? Explain its advantages and disadvantages **[10]**

Q3) What is Java script? What are the different types of scripting languages?**[10]**

Q4) What is web hosting? Describe steps of web hosting. **[10]**

Q5) Explain various uses of HTML and XML. **[10]**

Q6) Write java code for displaying amount of simple interest. Accept principle, interest rate and duration in years from user. **[10]**

Q7) Write short notes on(any four): **[20]**

   a)   Access Modifiers.

   b)   Wrapper Classes.

   c)   AWT Components.

   d)   XML.

   e)   WWW.

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P.G.D.C.M. (Management)
202 : SOFTWARE ENGINEERING
(2008 Pattern) (Semester-II)

Time : 3 Hours]   *[Max. Marks : 70*
Instructions to the candidates:

   1)   *Question No. 1 and 6 are compulsory.*

   2)   *Attempt any three from remaining.*

Q1) A college wants to computerize its Library. Members of library give their information and get library card. Books are purchased from various book suppliers. Various transactions like book issue, book return, fine collection, claim for a particular book are carried out by the system. Various reports are generated and given to management.

   a)   Draw context level DFD.   **[7]**

   b)   Draw ERD.   **[7]**

   c)   Design Normalized File Layouts.   **[6]**

Q2) Design a Pay-slip format given to employees of an organization with various earnings and deduction details.   **[10]**

Q3) Explain various Fact-Finding techniques in detail.   **[10]**

Q4) Explain System Development life cycle in detail.   **[10]**

Q5) Explain various skills required by System Analyst.   **[10]**

Q6) Write short notes on (Any Four):   **[20]**

   a)   Data Dictionary.

   b)   Input Design.

   c)   Decision Tree.

   d)   Normalization.

   e)   4GL.

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P.G.D.C.M.

203: DBMS AND ORACLE

(2008 Course) (Semester - II)

Time : 3 Hours]   *[Max. Marks : 70*

Instructions to the candidates:

    1)   All questions are compulsory.

    2)   Figures to the right indicate full marks.

Q1) Using the following tables, write SQL statements.(Write any 5).   **[15]**

    Emp (empno, ename, address, ph, dob, salary, comm, hiredate, mgrno, deptno)

    Dept (deptno, dname, locno)

    Location (locno, ldesc)

    a)   Display the details of employees from SALES department.

    b)   Display the employee name, salary and total annual compensation.

    c)   Display the details of employees who do not receive commission.

    d)   Display the employee name along with his managers name.

    e)   Delete the employee details from the OPERATIONS department.

    f)   Display the details of employees residing out of PUNE.

Q2) Define Data Model. Explain ER model in detail.   **[10]**

<div align="center">OR</div>

State and explain Dr. E.F. Codd's any 8 Rules.

<div align="right">*P.T.O.*</div>

Q3) Define DBMS. Explain DBMS architecture in detail with diagram. **[10]**

Q4) Discuss features of Hierarchical Network and Relational Database Model.**[10]**

Q5) Explain DDL commands with syntax and example. **[10]**

<div align="center">OR</div>

Explain SQL Joins with syntax and example.

Q6) Answer any 3. **[15]**

    a)   Mapping Cardinalities

    b)   SQL Group Functions

    c)   Static Vs Dynamic Cursor

    d)   SQL Character Functions

    e)   Group by Having.

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