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P.G.D.C.M. (First Semester) EXAMINATION, 2017
101 : ELEMENTS OF INFORMATION TECHNOLOGY AND OFFICE AUTOMATION WINDOWS OPERATING SYSTEM AND M.S. OFFICE
(2008 PATTERN)

Time : Three Hours　　　　　　　　　　**Maximum Marks : 70**

N.B. :— (*i*)　Attempt any *seven* questions.

(*ii*)　*All* questions carry equal marks.

1. (*a*)　Convert :

(*i*)　$(133)_{10} = (?)_2$

(*ii*)　$(654)_8 = (?)_{16}$

(*b*)　Explain generations of computer.

(*c*)　Explain implementation of logical operations of AND, OR, NOT.

2. (*a*)　Explain statistical and mathematical functions used in excel.

(*b*)　Differentiate between compiler and interpreter.

3. (*a*)　What is computer ? Explain with block diagram.

(*b*)　Explain MS-outlook as personal information manager.

4. (*a*)　Explain working of CD ROM.

(*b*)　Discuss laser and dot matrix printers.

P.T.O.

5. Explain file organization and accessing techniques.

6. What is file ? Explain file sorting and merging with example.

7. (*a*) Explain in brief history of computers.

(*b*) Explain any *five* maths functions in MS-Excel.

8. Write notes on (any *two*) :

(*a*) MICR

(*b*) Computer Virus

(*c*) Device Drivers.

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P.G.D.C.M. (I Sem.) EXAMINATION, 2017

102 : PROGRAMMING USING VISUAL BASIC

(2008 PATTERN)

Time : Three Hours　　　　　　　　　　　Maximum Marks : 70

N.B. :— (*i*)　*All* questions are compulsory.

(*ii*)　*All* questions carry equal marks.

1. Trace output and justify (any *four*) :

(*a*)　Print Asc("Alladin")

(*b*)　tmp = Mid("Pride & Prejudice 4", 18)

Print Sqr(temp)

(*c*)　Dim i&

Print VarType(i)

Print TypeName(i)

(*d*)　i = #5/20/2007#

Print Day(i)

Print Month(i)

(*e*)　Print Abs(–545.45)

2. (A) Write any *one* important method and one important property of the following controls (any *four*) :

    (*a*) Common dialogbox Control

    (*b*) Listbox

    (*c*) Textbox

    (*d*) Combobox

    (*e*) Command button

(B) Accept numbers in an inputbox from user. Add numbers in a ListBox, now display in a messagebox the average of the given list and the square of a selected number from the listbox.

3. (A) On a form take a textbox, a label and option buttons, accept date and time in the textbox. Now give the following options to user to display in the label the following only weekday, year, hour, minute and second.

(B) On a form take two textboxes, a label and two option buttons depicting/captioned as Rectangle Area and Square Area. Accept number in the textbox, on click of the appropriate option button; display area of rectangle (intput required in both textboxes) or area of a square (input required in anyone textbox) in the label.

4. Design interface which will have menu options FontEffecets, Colour, FontStyle and Help; a textbox.

(*a*) On click of the FontEffects menu, change font in the textbox to Underline, Strikethrough and fourcolour of textbox.

(*b*) On click of the colour menu, change backcolour of the textbox.

(*c*) Change font style of the text in the textbox.

(*d*) Invoke help for notepad.

5. Write short notes on (any *four*) :

(*a*) Dialogboxes-inputbox and msgbox

(*b*) Loops in VB

(*c*) Control Arrays

(*d*) Datatypes and Scope of Variables

(*e*) Any 2 Mathematical and 2 Date Functions.

Total No. of Questions—5] [Total No. of Printed Pages—3

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P.G.D.C.M. (First Semester) EXAMINATION, 2017

103 : INTRODUCTION TO C AND C++ LANGUAGE

(2008 PATTERN)

Time : Three Hours **Maximum Marks : 70**

N.B. :— (*i*) Q. No. **1** is compulsory.

(*ii*) Solve any *three* questions from Q. Nos. **2** to **5.**

(*iii*) Figures to the right indicate full marks.

1. Write output of the following programs with explanation : [10]

(*a*)
```c
#include<stdio.h>
int main( )
{
    char ch;
    if(ch = printf(""))
        printf("It matters\n");
    else
        printf("It doesn't matters\n");
    return0;
}
```

(*b*) #include<stdio.h>

Void main( )

{

    int i, j=9;

    for (; ;)

    printf ("%d",j);

}

2. (*a*) Write a progam in C program to calculate sum of 5 subjects and find percentage. [10]

    (*b*) Write short notes on : [10]

        (*i*) Friend functions in C++.

        (*ii*) Iterative/Looping statements of C.

3. (*a*) Differentiate between : [10]

        (*i*) continue and break statements.

        (*ii*) if.... else and switch case statements.

    (*b*) Write a program in C++ to accept radius and calculate diameter, circumference and area of circle. [10]

4. (*a*) Write a program in C to swap two numbers without using third variable. [10]

    (*b*) Explain Single dimension Array in C with example. [10]

5. Write short notes on : [20]

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

    (*ii*) Hybrid Inheritance with example in C++

    (*iii*) Constructors and destructors

    (*iv*) Call by value and call by reference in C.

Total No. of Questions—7] [Total No. of Printed Page—1

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P.G.D.C.M. (II Sem.) EXAMINATION, 2017
202 : SOFTWARE ENGINEERING
(2008 PATTERN)

Time : Three Hours **Maximum Marks : 70**

N.B. :— Solve any *five* questions.

1. Explain various steps of SDLC. [14]

2. What are the skills that an analyst should possess ? Explain. [14]

3. Explain waterfall model with suitable diagram. [14]

4. Explain Decision Tree, Decision Table in brief. [14]

5. Design a data entry screen for admission form for MBA admission in college. [14]

6. Draw context level DFD for Bank Fixed deposite system. Design format of F.D. Receipt. [14]

7. Write short notes on (any *two*) : [14]
   (*a*) Fact finding techniques
   (*b*) Pseudo code
   (*c*) Spiral model.