Total No. of Questions—**8**] [Total No. of Printed Pages—**2**

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[5278]-11

PGDCM (I Sem.) EXAMINATION, 2017

101 : ELEMENTS OF INFORMATION TECHNOLOGY AND OFFICE AUTOMATION (WINDOWS OPERATING SYSTEM AND MS-OFFICE)

(2008 PATTERN)

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

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

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

1. Solve the following :

(*a*) $(10001)_2 + (3D)_{16} = (?)_{10}$

(*b*) $(5A)_{16} = (?)_8 = (?)_2$

(*c*) $(100011001)_2 = (?)_{10} = (?) = 8$

(*d*) $(101010)_2 * (13)_{10} = (?)_8$

(*e*) $(112)_8 + (10101)_2 = (?)_{10}$.

2. Explain the working of CD as one of the memory devices.

3. Explain functions of the operating system.

4. Explain file manager in MS Windows.

P.T.O.

5. Explain file organization and accessing techniques.

6. Write brief introduction of MS-Word and MS-Excel.

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

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

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

(*a*) OCR

(*b*) Computer virus

(*c*) Printers.

Total No. of Questions—**4**] [Total No. of Printed Pages—**3**

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[5278]-12

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

PROGRAMMING USING VISUAL BASIC

(2008 PATTERN)

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

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

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

1. Give the output for the following sections of code and explain (any *five*) : [20]

(*a*)
```
Dim i
i = –2.3
Print CBool(Abs(i))
```

(*b*)
```
Const Pl As Single = 3.14
Print Pl + 3
Print Pl
```

(*c*)
```
Dim dt1, dt2
dt1 = # 12/31/2008#
dt2 = DateAdd("m", 1, dt1)
Print dt1
Print DateDiff("d", dt1, dt2)
```

(*d*)
```
For ch = 65 To 73 Step2
Print Chr(ch)
Next ch
```

P.T.O.

(*e*) Dim a As Integer

a = 16

Print Hex(a)

Print Oct(a)

(*f*) Print Left (StrConv("posT gradUate", vbProperCase), 6)

2. Explain the following properties (any *five*) : [10]

(*a*) MaxLength property of Text Box

(*b*) Value property of Option Button

(*c*) Path property of Dir List Box

(*d*) ListCount property of List Box

(*e*) List property to Combo Box

(*f*) Wordwrap of Label

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

(*a*) Explain Control Array with suitable example.

(*b*) Menu Editor in VB

(*c*) Input Box and Message Box

(*d*) String functions (any **5**)

(*e*) Microsoft Windows Common Controls 6.0

4. Write sectional codes for the following (any *four*) : [20]

(*a*) Write a code to accept 10 numbers from user and store them in an integer array and find 2nd largest no. from it.

(*b*) Take a Command Button captioned as Order, a List Box which will display Restaurant Menus. Display selected items in Message Box when Order Button is clicked.

(*c*) Take a Text Box, Command Button and three Option Buttons to select a course from MCM/DCM/PGDCA. Display selected course in the Text Box when Command Button is clicked.

(*d*) Take a Text Box, Command Button and four Check Boxes having caption as (Bold, Italics, Strike, Underline) Display text of Text Box in selected format when Command Button is clicked.

(*e*) Take Text Box to accept a number. Print factorial of the given number when the button is pressed.

Total No. of Questions—**7**] [Total No. of Printed Pages—**2**

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[5278]-13

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

INTRODUCTION TO C AND C++ LANGUAGE

(2008 PATTERN)

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

N.B. **:—** (*i*) Question Nos. **1** and **7** are compulsory.

(*ii*) Write any *four* from Q. Nos. **2** to **6**.

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

```
#include<stdio.h>
int change(int x,int*y)
{
x=x+5;
*y=*y+5;
return 0;
}
void main()
{
int a=10,b=20;
clrscr();
change(a,&b);
printf("%d%d",a,b);
getch();
}
```

P.T.O.

2. Write a C program that will accept 10 numbers in array and will print array in ascending order. [10]

3. Write a program in C++ to display Fibonacci Series

0, 1, 1, 2, 3, 5, 8, 13, 21, 34..... [10]

4. Write a C program to reverse a string entered by through keyboard. [10]

5. Explain object-oriented programming concepts with advantages. [10]

6. Explain different operators used in C. [10]

7. Write short notes on (any *two*) : [20]

(*a*) Friend functions in C++

(*b*) Looping statements in C

(*c*) Recursion in C.

Total No. of Questions—**7**] [Total No. of Printed Pages—**2**

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[5278]-21

PGDCM (II Sem.) EXAMINATION, 2017

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

(2008 PATTERN)

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

N.B. **:—** (*i*) Question No. **7** is compulsory.

(*ii*) Solve any *five* from Q. Nos. **1** to **6**.

(*iii*) Write your assumptions if any.

1. Explain with example Encapsulation and Polymorphism in Java. [10]

2. Explain any *four* Java AWT Components. [10]

3. Write an item class with itemno, itemnm, stock and uom as instance variables. Write the overloaded constructors. Also write Issue( ) and Receipt( ) methods. [10]

4. Write a Java program to input 2 integers n and p, find and display n raised to power p. [10]

5. Explain various uses of HTML and XML. [10]

P.T.O.

6. What is WWW ? What is HTML ? Explain the following tags : [10]

(*a*)

(*b*)

(*c*) <title>

(*d*)

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

(*i*) Layout Manager

(*ii*) Classes and Objects

(*iii*) AWT Components

(*iv*) HTML Tags

(*v*) WWW

Total No. of Questions—**7**] [Total No. of Printed Pages—**2**

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[5278]-22

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

202 : SOFTWARE ENGINEERING

(2008 PATTERN)

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

N.B. **:—** Solve any *five* questions.

1. Explain role of system analyst in detail.

2. Explain fact finding techniques used in detail.

3. Explain decision tree, decision table with example.

4. Explain prototyping and spiral model.

5. Explain Normalization process in detail.

6. The institute offers variety of courses under various streams. Each course is made up of set of subjects. Faculties in the institute are assigned courses to teach according to the core area of the faculty & availability. The institute publishes and maintains calender of different courses. Each course has a course co-ordinator who manages the courses including course content, assign-courses to the faculty and define course schedule. Academic record of the student is

P.T.O.

maintained by concerned faculty & submitted towards course co-ordinator.

(*a*) Draw E-R Diagram

(*b*) Draw Context Level DFD

7. Write short notes on (any *two*) :

(*a*) Mapping E-R model with database

(*b*) Pseudo code

(*c*) Feasibility study.

Total No. of Questions—**6**] [Total No. of Printed Pages—**2**

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[5278]-23

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

203 : DATABASE MANAGEMENT SYSTEM & ORACLE

(2008 PATTERN)

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

N.B. **:—** (*i*) Question No. **1** and Question No. **6** are compulsory.

(*ii*) Attempt any *three* from Question No. **2** to Question No. **5**.

1. Consider the following Schema : [15]

President (pres_id,last_name,first_name,political_party,state_from)

Administration(start_date,pres_id,end_date,VP_lastname, VP_firstname)

State(state_name,area,population,capita_city,data_available)

Write SQL Queries for the following :

(1) Get the details of president of 2005.

(2) Name the political party of president of 2014.

(3) Last name of vice-president of 2000.

(4) Get the pair of president and vice president yearwise.

(5) Get the details of the state as state_nm, capital, population, area of president of 2003.

2. (*a*) Write a PL/SQL program to print accepted string in reverse order. [8]

(*b*) Explain Hierarchical Data Modeling Technique. [7]

P.T.O.

3. (*a*) Explain various users of DBMS. [8]

(*b*) Explain the use of MS-Access. [7]

4. (*a*) Explain 1NF, 2NF and 3NF with an example. [8]

(*b*) Define the term Domain, Tuple, Cardinality in RDBMS. [7]

5. (*a*) Explain DDL commands in oracle with example. [8]

(*b*) Describe architecture of DBMS. [7]

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

(*i*) String Functions

(*ii*) Software Modules in DBMS

(*iii*) ERD Model

(*iv*) Trigger.