[4884] - 101

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

101 : ELEMENTS OF INFORMATION TECHNOLOGY AND OFFICE AUTOMATION

(Windows Operating Systems and MS Office)

(2013 Pattern)

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

Instruction to the candidate :

1) *All questions are compulsory.*
2) *Figures to right indicate full marks.*

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

a) $(110100)_2 = (?)_{10}$

b) $(262)_8 = (?)_{16}$

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

a)   Differentiate between compiler and Interpreter.

b)   Define computer? Explain characteristics of computer.

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

a)   Define Binary system? Explain 1's and 2's complement with example.

b)   Explain Batch and Real time processing with example.

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

    a) Explain the process of Mail merge in MS word.

    b) Explain AND, NOT Logical gates.

Q5) Write short notes (any two) [5 + 5 = 10]

    a) MICR.

    b) Computer virus.

    c) Dialogue Box.

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[4884] - 102

P.G.D.C.M.

102 : PROGRAMMING USING VISUAL BASIC

(2013 Pattern)

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

Instruction to the candidates :

    1)   *All questions are compulsory.*

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

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

    a)   Explain mathematical & string functions in detail.

    b)   Explain IF & IIF statement & Do loop with example.

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

    a)   Explain List Box, Drive List box, Dir List box & file List box in detail.

    b)   Explain any four MS-Window common control.

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

    a)   Take a text box & two buttons. Accept a number. Write the following code to

        i)   Check whether the number is prime

        ii)   Check whether the number is less than 100.

    b)   Explain arrays & controlling array with example.

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

a) Write a sectional code for the following.

    i) Accept number in text box & print factorial of the number when display button is pressed.

    ii) Use check box control to select font size & display the text using selected font size.

b) Explain date & data type conversion functions.

Q5) Answer the following (any one) **[10]**

a) Explain input & dialog box in detail example.

b) Explain user defined variable & constants in detail with example.

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[4884] - 103
P.G.D.C.M.
INTRODUCTION TO C AND C++ LANGUAGE
(2013 Pattern) (Semester - I)

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

Instruction to the candidates :

    1)   Question No.1 is compulsory.

    2)   Attempt any two from Q. Nos. 2 to 4.

Q1) Write short notes on any four :

    a)   Functions in C   **[5]**

    b)   Function overloading   **[5]**

    c)   Hybrid inheritance   **[5]**

    d)   Arrays   **[5]**

    e)   New operator in C++   **[5]**

Q2) Write a program in C to generate the following pattern :   **[15]**

```
1
1    3
1    3    5
1    3    5    7
1    3    5    7    9
```

Q3) Write a program in C to create a file having following fields :   **[15]**

int college_code, char college_nm, float fees.

Q4) Write a program in C++ to accept a single digit number, the program should display it in words.   **[15]**

Eg. 3 → THREE.

[4884] - 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)   All questions carry equal marks.
   2)   Question No.1 is compulsory.

Q1) What is E-Commerce? Explain steps of web hosting in detail.   **[10]**

Q2) Attempt the following (any one) :   **[10]**
   a)   What is e-transaction? Explain benefits of E-Commerce.

   b)   Define cyber-crash? Explain it in detail.

Q3) Attempt the following (any one) :   **[10]**
   a)   What is WWW? Explain any five tags of HTML.

   b)   What is XML? Explain advantages of XML in detail.

Q4) Attempt the following (any one) :   **[10]**
   a)   Define the term Interface. Explain concept of interface with suitable Java program.

   b)   Demonstrate the AWT components Panel, Frame, Text field, label & Button with Java program.

Q5) Write short notes on (any two) :   **[2 × 5 = 10]**
   a)   Object oriented features of Java.

   b)   Arrays in Java.

   c)   <Table> element in HTML.

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[4884] - 202

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

202 : SOFTWARE ENGINEERING

(2013 Pattern)

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

Instruction to the candidates :

1) *All questions are compulsory.*

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

Q1) Attempt the following questions (<u>any one</u>) :   **[10]**

     a)   Design context level diagram for purchase order system and design the format of purchase order and report for pending purchase orders.

     b)   Explain Waterfall model with suitable diagram in detail.

Q2) Attempt the following questions (<u>any one</u>)   **[10]**

     a)   Explain Software Development Life Cycle in detail.

     b)   Explain Feasibility Study in detail.

Q3) Attempt the following questions (<u>any one</u>)   **[10]**

     a)   Define the term normalization. Explain normalization in detail.

     b)   Draw E-R diagram and Database design for Library Management System.

Q4) Attempt the following questions (<u>any one</u>)   **[10]**

    a)   Design a GUI form for providin g student feedback for teaching faculty and infrastructure facilities of institute.

    b)   Explain role of system analyst in detail.

Q5) Write short notes on (<u>any two</u>)   **[2 × 5 = 10]**

    a)   Spiral Model.

    b)   4GL.

    c)   Types of Requirements.

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[4884] - 203

P.G.D.C.M.

203 : DATABASE MANAGEMENT SYSTEM & ORACLE

(2013 Pattern)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates :

1) *Draw neat diagrams wherever necessary.*
2) *Figures to the right indicate full marks.*

Q1) Answer the following (any one) :   [10]

a) Explain architecture of DBMS in detail.

b) Explain domain and tuple in detail.

Q2) Explain (any one) :   [10]

a) What is normalization? Explain advantages and disadvantages of Normalization.

b) Different types of model.

Q3) Consider following tables :   [10]

a) Subject (subject_code (PK), subject_name, course (PGDCA, PGDCM), marks)

b) Faculty (Faculty_id (PK), faculty_name, address, city, gender (Male, Female), subject_code (FK)).

Query (i) is compulsory. Solve any 2 from (ii) to (iv)

i) Create the above tables with proper constraints.

ii) Add column experience to faculty table.

iii) Display faculty name with highest experience for all subjects.

iv) Display all subjects for PGDCM course.

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

    a)   Explain Joins in Oracle.

    b)   Explain various keys in DBMS.

Q5) Answer the following (any two) :   **[10]**

    a)   What are COMMIT and ROLLBACK statements?

    b)   What is cardinality?

    c)   Advantages and disadvantages of DBMS.

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