



[4389] – 201

Seat No.	
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**P.G.D.C.M. (Semester – II) Examination, 2013**  
**201:WEB TECHNOLOGY INCLUDING E-COMMERCE, HTML AND**  
**BASIC JAVA**  
**(2008 Pattern)**

Time : 3 Hours

Max. Marks : 70

**Instructions:** 1) **Q. 1 and Q. 8 are compulsory.**  
2) Solve **any five** from remaining.  
3) Write assumptions if **any**.

1. What is E-Commerce ? How it works ? Explain its advantages and disadvantages. 10
2. Write an item class with itno, itnm, stock and uom as instance variables. Write the overloaded constructors. Also write Issue() and Receipt() methods. 10
3. Explain the Layout Managers in Java. 10
4. Solve (**any 2**) : 10
  - a) Discuss various methods of String Class
  - b) Explain Button and Text Field Java AWT Components
  - c) Explain polymorphism in java with suitable e.g.
5. What is Overriding Constructor in Java ? Explain with example. 10
6. Define a Class Rectangle with length and breadth as an attributes. Write a java code to display area if rectangle. 10
7. What is WWW ? What is HTML ? Explain the following tags. 10
  - a) <i>
  - b) <tr>
  - c) <body>
  - d) <hr>
8. Write short notes on (**any two**) : 10
  - a) Inheritance in Java
  - b) Digital Signature
  - c) XML
  - d) Applet Life Cycle.



[4389] – 202

Seat No.	
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**P.G.D.C.M. (Semester – II) Examination 2013**  
**202 : SOFTWARE ENGINEERING**  
**(New) (2008 Pattern)**

Time : 3 Hours

Max. Marks : 70

**Note :** 1) Make your own assumptions, **whenever** necessary.  
2) Q. 1 and Q. 7 are **compulsory** and solve **any three** from remaining.

1. Soft Tech Pvt. Ltd. has issued an advertisement calling applications for various posts. After receiving applications scrutiny will be made and interview letters will be send. Deserving candidates will be selected through interviews and will be appointed as regular employees.
  - a) First level DFD. 10
  - b) ER diagram. 5
  - c) Database design. 10
2. Design a data entry screen for admission form for PGDCM admission in college. 10
3. Explain various fact finding techniques with its advantages and disadvantages. 10
4. Draw Decision Tree and Decision Table for the following :

Invoice Amount	Sales Tax	Discount	
Less than 10,000	Nil	Nil	
10,000 – 20,000	5%	6%	
20,001 – 40,000	6%	8%	
More than 40,000	9%	10%	10
5. Design employee Payslip format for INFOSYSYSTEMS Ltd. 10
6. Explain classical life cycle and prototyping approach to SDLC in detail. 10
7. Write short notes on (**any three**) : 15
  - i) Types of system
  - ii) Role of system analyst
  - iii) Spiral model
  - iv) Structured English.



[4389] – 101

Seat No.	
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**P.G.D.C.M. (Semester – I) Examination, 2013**  
**101 : ELEMENTS OF INFORMATION TECHNOLOGY AND OFFICE**  
**AUTOMATION WINDOW OPERATING SYSTEMS AND M.S. OFFICE**  
**(2008 Pattern)**

Time : 3 Hours

Max. Marks : 70

- Note :** 1) Q. 1 is **compulsory**.  
2) Solve **any four** questions from the remaining.  
3) Figure to the **right** indicate **full** marks.

- |                                                                     |    |
|---------------------------------------------------------------------|----|
| 1. A) Convert                                                       | 4  |
| I) $(163)_{10} = (?)_2$                                             |    |
| II) $(666)_8 = (?)_{16}$                                            |    |
| B) Explain characteristics of computer.                             | 5  |
| C) Explain implementation of logical operations of AND, OR, NOT.    | 5  |
| 2. A) Explain statistical and mathematical functions used in excel. | 7  |
| B) Differentiate between compiler and interpreter.                  | 7  |
| 3. A) What is computer ? Explain with block diagram.                | 7  |
| B) Explain working of dot matrix printers.                          | 7  |
| 4. A) Explain working of CD ROM.                                    | 7  |
| B) Explain MS-outlook as personal information manager.              | 7  |
| 5. What is operating system ? Explain its functions.                | 14 |
| 6. Write notes ( <b>any 2</b> ) :                                   | 14 |
| a) OCR                                                              |    |
| b) Computer virus                                                   |    |
| c) Generations of computer.                                         |    |



[4389] – 102

Seat No.	
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**P.G.D.C.M. (Semester – I) Examination, 2013  
102 : PROGRAMMING USING VISUAL BASIC  
(2008 Pattern)**

Time : 3 Hours

Max. Marks : 70

**Note : All questions are compulsory.**

1. Give output for following section of code and explain (**any five**) : **20**

- a) nm = "Atul"  
If (nm > "Arjun") then  
Print nm  
else  
Print "Ashok"
- b) Print Asc ("A")
- c) for i = 1 to 3  
Print "i"  
next i
- d) dim ct as string  
ct = "Pune"  
Print Right (ct, 3)
- e) Print chr (67)
- f) MsgBox "Hello"

2. Name the property for the following controls (**any five**) : **5**

- a) To change size of font of Text Box.
- b) To change colour of label.
- c) To assign image to picture box.
- d) To apply a graphical effect to Command Button.
- e) To change title of Command Button.
- f) To change dimensions (size) of image box.

P.T.O.



3. Write a sectional code for the following (**any four**) : **20**

- a) To find maximum among three numbers.
- b) To change colour of form on click to three command buttons namely Red, Green and Blue.
- c) To display 1 to 10 numbers and their squares.
- d) To display “P.G.D.C.M.” in a label and to change its font as per selection from option button to Bold or Italic.
- e) To arrange five names in dictionary order.

4. Write short notes on (**any five**) : **25**

- a) Mathematical functions
- b) Branching statements
- c) Common dialog box
- d) Vertical and Horizontal Scroll bars
- e) Check box
- f) Event driven programming.

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[4389] – 103

Seat No.	
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**P.G.D.C.M. (Semester – I) Examination, 2013**  
**103 : INTRODUCTION TO C AND C++ LANGUAGE**  
**(2008 Pattern)**

Time : 3 Hours

Max. Marks : 70

- Note :** 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**.

1. Write output of following programs with explanation

10

a) Void main ( )

```
{  
    int i, j;  
    for (i = 1; i <= 3; i + +)  
        printf ("%d", i);  
}
```

b) Void main ( )

```
{  
    int x, y;  
    x = 5;  
    y = 50;  
    if (x == y)  
        printf ("Equal");  
    else  
        printf ( "Not Equal");
```

P.T.O.



- 2. a) Write a program in C to accept temperature in Fah. & to display temperature in Cel. 10

Hint :  $Cel = \frac{5}{9}(Fah - 32)$

- b) Write short notes on : 10
  - 1) Features of C++
  - 2) Constructors and destructors.

- 3. a) Differentiate between : 10
  - 1) single and multilevel inheritance.
  - 2) if... else and switch case statements.

- b) Write a program in C to display the following pattern : 10

1) 1	2) 9
1 3	7 9
1 3 5	5 7 9
1 3 5 7	3 5 7 9
1 3 5 7 9	1 3 5 7 9

- 4. a) Write a program in C++ to display multiplication table of a number accepted through user. e.g. if the number is 7 10

7 \* 1 = 7  
7 \* 2 = 14  
;  
7 \* 10 = 70.

- b) Explain inheritance with example. 10

- 5. Write short notes on : 20
  - a) References in C++
  - b) Friend functions in C++
  - c) Iterative/Looping statements of C.
  - d) Arrays in C.



[4389] – 203

Seat No.	
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**P.G.D.C.M. (Semester – II) Examination, 2013**  
**203 : DATABASE MANAGEMENT SYSTEM & ORACLE**  
**(2008 Pattern)**

Time : 3 Hours

Max. Marks : 70

***Instruction : All questions are compulsory.***

1. Solve **any five**. **(5×8)**

- a) Explain any 8 Codd's Rule.
- b) Explain 1NF, 2NF and 3NF with example.
- c) Explain ER – Models with examples.
- d) Explain various users of DBMS.
- e) Explain various keys in DBMS.
- f) Various datatypes used in MS – Access.
- g) What are different types of anomalies ? Explain with example.
- h) Explain HDB, NDB and RDB.

2. Consider the following tables : **(20)**

- 1) Depositor (depositor \_ no (PK), depositor\_name, add, city (PUNE, MUMBAI, NAGPUR), dateofbirth, minor\_status (Y/N))
- 2) FDAccount (FDNO(PK), depositor \_ no(FK), deposit \_ amount, no \_of \_ years, Interest\_rate)

Query 1 is **compulsory**. Solve **any 6** from 2 to 8.

- 1) Create the above tables with proper constraints.
- 2) Add a column maturity \_ date in FDAccount table.
- 3) Display Depositors having names starting with letter "A".

P.T.O.





- 4) Calculate maturity \_ date for all FD's.
- 5) Display total number of minor depositors.
- 6) Display FDAccount having deposit \_amount greater than 10000.
- 7) Display FDAccount details of the depositors staying in NAGPUR city.
- 8) Display FD details maturing in the month of November.

3. Answer the following **(any 2)**

**(10)**

- 1) What are COMMIT and ROLLBACK statements ? Why are they used ?
- 2) Explain Union, Intersect and Minus operators.
- 3) Explain Joins in Oracle.

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