

**M.B.PATEL SCIENCE COLLEGE**  
**Managed by : Charotar Education Society, Anand**  
**FIRST INTERNAL THEORY EXAM : 2011-12**  
**T.Y.B.Sc. [Computer Science]**  
**[ CS-301 : Business Application through DBMS ]**

Time : 3:00 PM to 4:30 PM

Date : 17/10/2011

Marks : 40

- Q.1 [A]** Explain the following commands with examples. (Any four) [06]  
1. create 2. delete 3. append 4. accept 5. list files  
6. display command
- [B]** Explain the following set environment commands. (Any four) [04]  
1. set talk 2. set decimal 3. set clock 4. set default  
5. set deleted 6. set printer
- [C]** Explain the following functions. (Any four) [04]  
1. cmonth() 2. replicate() 3. upper()  
4. year() 5. substr() 6. asc()
- Q.2 [A]** Answer the following (Any one) [07]  
1. What is sorting? Explain SORT command. Explain SORT command with all the options.  
2. What is command file? Explain the commands which are used to create, edit, save and run the any command file with example. Explain EOF() and BOF()
- [B]** Answer the following (Any one) [06]  
1. Explain : do while...end do, if..else ..end if  
Explain different between SORT and INDEX.  
2. Explain : For..End for, Nested if  
Explain : What is indexing and index command with example.
- Q.3[A]** Answer the following (Any one) [07]  
1. What is relations? Explain set relation command with example.  
2. Explain update and join command with example.
- [B]** Answer the following (Any one) [06]  
1. Explain Append from, copy to and set index command.  
2. Explain the procedure and function can be used in Foxpro with example. (without and with parameter)

\*\*\*\*\* Best of Luck \*\*\*\*\*

M. B. Patel Science College, Anand  
 First Internal Examination – October 2011  
 Data Structure and Programming using C++ (CS-302)  
 T.Y.B.Sc. [ COMPUTER SCIENCE]

Date : 18 / 10 / 2011

Total Marks : 40

Time : 3:00 P.M. to 4:30 P.M.

<b>Q.1 [a]</b>	<b>Attempt any One.</b>	<b>[04]</b>
	1. Write down characteristics of procedural programming and object oriented programming. State benefits of object oriented programming.	
	2. Explain any two basic terminology of Object Oriented Programming.	
<b>[b]</b>	<b>Do as directed (any three)</b>	<b>[09]</b>
	1. Write structure of C++ program. Explain various data types used in C++.	
	2. Which manipulators used in CPP? Explain its used for formatting outputs.	
	3. Explain cin and cout command with example.	
	4. Explain declaration and initialization of variable. What is the use of reference variable.	
	5. Write notes on C++ tokens.	
<b>Q.2[a]</b>	<b>Attempt any one.</b>	<b>[05]</b>
	1. What do you mean by class and object? Explain declaration of class and accessing of class members with example. Explain access specifier used in class.	
	2. What is constructors? Write characteristics of constructor. Explain any one constructors with example.	
<b>[b]</b>	<b>Do as directed. (any three).</b>	<b>[09]</b>
	1. What do you mean by looping statement? Differentiate between while and do-while loop.	
	2. What is structure ? Discuss the concept of array of structure with example.	
	3. What is sorting. Which sorting methods used for sorting? Explain any one with example.	
	4. Explain new and delete operator with example.	
	5. Write notes on array of object ?	
<b>Q.3[a]</b>	<b>Attempt any one.</b>	<b>[04]</b>
	1. What is function? What are the advantages of using function ? Explain classification of function.	
	2. Define pointer. What are the advantages of pointer ? How pointer is declared and initialize?	
<b>[b]</b>	<b>Attempt any THREE from following.</b>	<b>[09]</b>
	1. How many types of user defined functions used in CPP? Explain any one with suitable example.	
	2. Discuss concept of function overloading with proper example.	
	3. How do you pass parameter in function? Discuss call by value and call by reference with example.	
	4. Explain pointer to pointer with suitable example.	
	5. Explain pointer and strings. Write difference between array of char and pointer to char.	

@@@@@ BEST LUCK @@@@@

M. B. Patel Science College, Anand  
T. Y. B. Sc. (Computer Science)  
First Internal Theory Test, 2011-2012  
CS-303: Business Data Processing  
19<sup>th</sup> October, Wednesday, 2011

Time: 3.00pm to 4.30pm

Total Marks: 40

<b>Q-1</b>		
<b>(a)</b>	Attempt any <b>ONE</b> .	05
i)	Write the full form of COBOL. Explain the structure as well as coding format of a COBOL program.	
ii)	Discuss in brief the level structure concept.	
<b>(b)</b>	Attempt any <b>THREE</b> .	09
i)	What is COBOL word? Explain.	
ii)	What do you know about Data Description Entry?	
iii)	Write short note on 'Value' Clause.	
iv)	Explain the importance of editing character 'Z' with examples.	
v)	What information is specified in an FD? Explain.	
<b>Q-2</b>		
<b>(a)</b>	Attempt any <b>ONE</b> .	04
i)	Explain in brief the Data Movement Verb 'MOVE'.	
ii)	Write short note on: COMPUTE verb.	
<b>(b)</b>	Attempt any <b>THREE</b> .	09
i)	Explain the arithmetic verb MULTIPLY.	
ii)	Explain the input/output verbs: READ and WRITE.	
iii)	Differentiate between WRITE and DISPLAY.	
iv)	Explain the Sequence control verb: GOTO and STOP.	
v)	Explain categories of COBOL statements with at least one example.	
<b>Q-3</b>		
<b>(a)</b>	Attempt any <b>ONE</b> .	04
i)	What is Table Handling in COBOL? Explain the OCCURS clause and subscripting with its rules.	
ii)	Write short note on REDEFINES clause.	
<b>(b)</b>	Attempt any <b>THREE</b> .	09
i)	Write short note on 'Condition-name Condition.	
ii)	Explain the IF statement with syntax and with different situations.	
iii)	Discuss the GO TO with depending phrase with example. Also make comparison with simple IF.	
iv)	Explain PERFORM with UNTIL with suitable example.	
v)	Explain PERFORM with VARYING AFTER with suitable example.	

**M.B. PATEL SCIENCE COLLEGE, ANAND**  
**T.Y.B.Sc(Computer Science)**  
**First Internal Test 2011-12**

**[CS-304 SYSTEM ANALYSIS DESIGN AND SOFTWARE ENGINEERING]**

**Date: 20/10/2011**

**Total Marks: 40**

**Time: 3.00P.M. TO 4.30P.M.**

- Q:1 (A) Attempt Any ONE [7]**  
(1) Define System. List and explain its characteristics in detail.  
(2) Explain types of system in detail.
- (B) Attempt Any ONE [6]**  
(1) Who is System analyst? Explain its roles in detail  
(2) Explain system concept in detail
- Q:2 (A) Attempt Any ONE [9]**  
(1) What is SDLC? Explain its phases in detail  
(2) What is SSADM? Explain its various methodology in detail
- (B) Attempt Any ONE. [5]**  
(1) List and Explain various types of fact gathering techniques in brief  
(2) What is Data capture? Explain its basic steps in brief.
- Q:3 (A) Attempt Any ONE. [7]**  
(1) What is DFD? Explain various symbols used to draw DFD  
(2) Define DFD. Explain various rules for drawing DFD
- (B) Attempt Any ONE. [6]**  
(1) Draw context level and first level DFD for Banking Management System.  
(2) Draw context level and first level DFD for Online Railway Reservation Sytem.

\*\*\*\*\* *BEST OF LUCK* \*\*\*\*\*

M. B. Patel Science College, Anand  
 First Internal Examination – October 2011  
 Data Communication and Networking (CS-305)  
 T.Y.B.Sc. [ COMPUTER SCIENCE]

Date : 21 / 10 / 2011

Total Marks : 40

Time : 3:00 P. M. to 4:30 P.M.

<b>Q.1 [a]</b>	<b>Attempt any Two.</b>	<b>[07]</b>
	1. Define networks. Explain advantages and disadvantages of network. What are the goals of computer network?	
	2. What is WAN? Explain transmission line and switching elements.	
	3. Explain local loops and trunks.	
	4. Explain how DQDB works in MAN?	
<b>[b]</b>	<b>Do as directed (any one)</b>	<b>[07]</b>
	1. Explain in detail structure of telephone networks.	
	2. Write notes on politics of telephone networks.	
<b>Q.2[a]</b>	<b>Attempt any one.</b>	<b>[04]</b>
	1. What is LAN ? Describe characteristics of LAN's.	
	2. Write usage of Internet. Also explain various browsers used in internet.	
<b>[b]</b>	<b>Do as directed. (any three).</b>	<b>[09]</b>
	1. List difference between LAN and Multi-user system.	
	2. Define terms Data Rate, Throughput, Server.	
	3. What is e-mail? What is the use of e-mail?	
	4. Give brief introduction to mosaic and gopher.	
	5. Describe bus topology with its advantages and disadvantages.	
<b>Q.3[a]</b>	<b>Attempt any one.</b>	<b>[04]</b>
	1. What is Mark-up Language? Write notes on History & generation of HTML.	
	2. What is frame? Write detail notes on frame and frameset definition.	
<b>[b]</b>	<b>Attempt any THREE from following.</b>	<b>[09]</b>
	1. Define List. Which type of list available in HTML? Explain any one with example.	
	2. Write notes on forms.	
	3. Explain table tag with example.	
	4. What is anchor tag? What are the use of anchor tag? Explain <A href> with example.	
	5. Explain <image>...</image> and <font>...</font> tag with suitable example.	

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**M.B.PATEL SCIENCE COLLEGE**  
Managed by : Charotar Education Society, Anand  
**FIRST INTERNAL THEORY EXAM : 2011-12**  
T.Y.B.Sc. [Computer Science]

[ CS-306 : Relational Database Management System and Visual Programming]  
Time : 3:00 PM to 4:30 PM Date : 22/10/2011  
Marks : 40

- Q.1** Answer the following any one from A or B
- [A]** 1. What is Visual IDE? Explain tool box, properties window and menubar. [06]  
2. Explain data types supported by Visual basic. [04]  
3. Explain messagebox. [03]
- [B]** 1. Explain declaration of a variable and write rules to form a variable and declaration of a variable and forcing variable with example. [06]  
2. Explain the following [04]  
    If..else, do while  
3. Explain InputBox. [03]
- Q.2 [A]** Explain the following control with its properties, method and its users. (Any four) [09]  
1. form 2. command button 3. textbox 4. frame 5. listbox
- [B]** Explain the following function. (Any four) [04]  
1. date 2. time 3. len 4. mid 5. ucase
- Q:3 [A]** Attempt Any ONE. [08]  
1. Explain Dr. E.F. Codd's rules in detail.  
2. What is RDBMS ? Explain the advantages of RDBMS and also explain the difference between DBMS and RDBMS
- [B]** Explain the following functions with example [Any Three] [06]  
(1) to\_char() (2) substr() (3) to\_date()  
(4) sum() (5) count() (6) initcap()

\*\*\*\*\* Best of Luck \*\*\*\*\*