**11**

DE–2927

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

ELECTRONIC DEVICES AND DIGITAL CIRCUITS

(upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

1. (a) Convert the following binary numbers to decimal numbers (10)

(i) 00111

* 1. (ii) 11001
  2. (iii) 10110
  3. (iv) 11110
  4. (b) Convert each of the following Hexa decimal numbers to binary number (10)

(i) FF

* 1. (ii) ABC
  2. (iii) CD42
  3. (iv) F329.

1. (a) Construct a three input NOR Gate and verify its truth table. (10)
   1. (b) Construct a three input NAND Gate and verify its truth table. (10)
2. (a) Prove Demorgan’s first theorem using Logic Circuit and truth table. (10)
   1. (b) Explain the commutative, Associative, and Distributive laws of boolean theorems. (10)
3. (a) Draw the circuit diagram of half adder, truth table and with the boolean expressions for sum and carry. (10)
   1. (b) Draw the circuit diagram of full adder, truth table and write the boolean expressions. (10)
4. (a) Differentiate between R-S and J-K flip-flops. (10)
   1. (b) With neat diagram Explain the shift-left register with an example. (10)
5. (a) Draw the circuit diagram of synchronous counter and state the advantages of its. (10)
   1. (b) Draw the circuit diagram of Ring counter and why the circuit is called Ring counter. (10)
6. (a) Draw and explain the cross-section of an n-channel J-FET. (10)
   1. (b) Draw and explain the cross-section of an n-channel MOSFET. (10)
7. (a) What is an op-amp? List the characteristics of an ideal op-amp? (10)
   1. (b) What is a differential amplifier? Draw the circuit of op-amp as a differential amplifier and derive the values of .   
       (10)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**12**

DE–2928

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

COMPUTER FUNDAMENTALS

(upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. (a) Explain the main parts of a personal computer. (7)
   1. (b) Write about classification of computers. (7)
   2. (c) Explain business data processing. (6)
2. (a) What are the basic data types? (8)
   1. (b) Convert the decimal number 48 into binary number.  
       (4)
   2. (c) Explain the purpose 2’s complement. (8)
3. Explain :
   1. (a) Magnetic disk
   2. (b) Magnetic tape
   3. (c) Line printer. (20)
4. (a) Explain arithmetic and logic units. (10)
   1. (b) Explain RAM and ROM. (10)
5. (a) Explain different types of software. (10)
   1. (b) Explain the functions of operating system. (10)
6. (a) Write about the features of word processing. (10)
   1. (b) Explain data base management systems. (10)
7. Explain the stages in program development. (20)
8. Write short notes on :
   1. (a) top down design (6)
   2. (b) debugging (6)
   3. (c) testing and verification. (8)

———————

**13**

DE–2929

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

COBOL AND BUSINESS DATA PROCESSING

(Upto 2002 onwards)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

1. (a) Distinguish manual data processing and computer data processing applications. (6)

(b) What is literal? What are the different types of literal in COBOL? Explain. (8)

(c) Distinguish files and records in COBOL. (6)

1. (a) What is a level number? How they are declared and differentiated? (10)

(b) Explain the editing characters in COBOL with example. (10)

1. (a) Explain the various types of Arithmetic verbs with its syntax and example. (10)

(b) What is table? How they are declared and used in COBOL? Explain it with example. (10)

1. (a) Explain the rules of file operation statements with its syntax. (10)

(b) Explain the various types of file organization in COBOL. (10)

1. (a) Explain the data processing concepts. (10)

(b) Distinguish verification and validation in COBOL.   
 (10)

1. (a) What is bubble sort? Explain it with example. (10)

(b) Distinguish linear search and binary search with example. (10)

1. (a) Explain the four stages of payroll processing. (10)

(b) What is inventory? Why they are used in business? What is the purpose? Explain with example. (10)

1. Write a COBOL program to create an employee file? Access the above file to calculate the net pay. (20)

———————

**14**

DE–2930

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

FORTRAN PROGRAMMING

(Upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

1. (a) Write FORTRAN expression for the following mathematical expressions. (10)

(i) 

* 1. (ii) 
  2. (iii) 
  3. (iv) .
  4. (b) Explain READ statement with suitable example.   
      (10)

1. (a) Explain Logical IF statement with suitable example. (10)
   1. (b) Write a FORTRAN program to find the largest number among the three numbers. (10)
2. (a) Explain DO statement with suitable example. (10)
   1. (b) Write a FORTRAN program to find the sum of the series 1 + 3 + 5 + . . .N. (10)
3. (a) What is subscripted variable? What is the use of DIMENSION statement? (8)
   1. (b) Write a FORTRAN program to sort the given set of *n* numbers into ascending order. (12)
4. (a) Explain the format characters I, F and X with suitable example. (10)
   1. (b) Write a FORTRAN program to find the mean of set of *n* integers. (10)
5. (a) Define a statement function to compute  and use it to evaluate the following :

(i) 

* 1. (ii) . (10)
  2. (b) Write a FORTRAN program to calculate  by making use of function subprogram for calculating factorial of a given integer. (10)

1. (a) Explain COMMON and EQUIVALANCE   
   statements with suitable example. (10)
   1. (b) Explain WRITE statement with suitable example.   
       (10)
2. Write a FORTRAN program to store the regno and marks in three different subjects of 50 students. Also find the average mark. The output should be stored in a file. (20)

——————

**15**

DE–2931

DISTANCE EDUCATION

B.C.A DEGREE EXAMINATION, MAY 2008.

ACCOUNTING AND FINANCIAL MANAGEMENT

(Upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. (a) Who are the users of Accounting Information?
   1. (b) What are the uses of cost accounting?
2. (a) Write a note on :
   1. (i) Dual aspect concept
   2. (ii) Money measurement concept.
   3. (b) What are the features of ‘Accounting principles’?
3. (a) Explain the rules and advantages of journalising.
   1. (b) Mention the various kinds of ‘subsidiary books’.
4. From the following Trial Balance of Raman, prepare trading, profit and loss account and balance sheet as an 31.12.2005.

|  | Dr | Cr |
| --- | --- | --- |
|  | Rs. | Rs. |
| Land and Building | 50,000 |  |
| Purchases return |  | 2,500 |
| Purchases | 1,10,000 |  |
| Opening stock | 40,000 |  |
| Sales |  | 2,05,000 |
| Sales return | 1,500 |  |
| Wages | 10,000 |  |
| Salaries | 9,000 |  |
| Office expenses | 2,400 |  |
| Carriage | 3,200 |  |
| Discount |  | 1,200 |
| Capital |  | 1,15,000 |
| Loan |  | 15,000 |
| Discount allowed | 750 |  |
| Bad debts | 1,200 |  |
| Insurance | 1,500 |  |
| Machinery | 50,000 |  |
| Furniture | 10,000 |  |
| Debtors | 40,000 |  |
| Commission received |  | 1,500 |
| Creditors |  | 25,000 |
| Bills payable |  | 2,350 |
| Cash | 26,000 |  |
| Office equipment | 12,000 |  |
|  | 3,67,550 | 3,67,550 |

* 1. Adjustment :
  2. (a) Closing stock is valued at Rs. 60,000.
  3. (b) Outstanding wages Rs. 2,000 and Rent Rs. 3,000
  4. (c) Depreciate Land and Building at 5%
  5. (d) Provide reserve at 2% on debtors
  6. (e) Insurance prepaid Rs. 200
  7. (f) Interest on capital at 5%.

1. A keeps his books by single entry on January 1, 2005 his capital was Rs. 6,000. An analysis of his cash book reveals the following :
   1. Receipts : Rs.
   2. Received from debtors 6,000
   3. Paid in on capital 500
   4. Credit side :
   5. Due to bank 1.1.2006 740
   6. Payments to creditors 2,500
   7. General expenses 1,000
   8. Wages 1,550
   9. Drawings 300
   10. Balance at bank (31.12.2005) 400
   11. Balance in hand 10
   12. Assets and Liabilities :

|  |  |  |
| --- | --- | --- |
|  | 1.1.2005 | 31.12.2005 |
|  | Rs. | Rs. |
| Debtors | 5,300 | 8,800 |
| Creditors | 1,500 | 1,950 |
| Stock | 1,700 | 1,900 |
| Plant | 2,000 | 2,000 |
| Furniture | 140 | 140 |

* 1. From the above particular, prepare trading, profit and loss account for the year ended 31.12.2005 and a balance sheet as on that data after providing 5% interest on capital, 10% Depreciation on plant, 5% depreciation on furniture and a reserve of 5% on debtors.

1. (a) Discuss the significance of ‘Financial Statement Analysis’.
   1. (b) What is ‘Common sized Balance sheet and Income Statements’?
2. (a) What are profitability ratios? How are they worked out?
   1. (b) Discuss the limitations of Ratio Analysis.
3. From the following information calculate (a) Average Stock (b) Purchases (c) Creditors Turnover ratio (d) Average payment period (e) Average collection period (f) Working capital turnover ratio.
   1. (i) Stock Turnover ratio = 6 time
   2. (ii) Gross profit ratio = 20% on sales
   3. (iii) Sales = Rs. 3,00,000
   4. (iv) Closing Stock is more than opening stock =   
      Rs. 10,000
   5. (v) Opening creditors = Rs. 20,000
   6. (vi) Closing creditors = Rs. 30,000
   7. (vii) Total debtors at the end = Rs. 60,000
   8. (viii) Net working capital = Rs. 50,000

–––––––––––

DE–2932

**21**

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

MICROPROCESSORS AND PERSONAL COMPUTERS

(Upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. (a) What is a Microprocessor? What is the difference between a Microprocessor and a micro-computer? (10)

(b) What are the hardware and software considerations in the design of a microprocessor based system? (10)

1. (a) State any five special purpose registers found in any Microprocessor and describe their functions. (10)

(b) Enumerate the logical instructions available in the 8085 instruction set with correct syntax. (10)

1. (a) What is an instruction format? Explain Instruction cycle time in detail. (10)

(b) Explain the various addressing modes of 8085. (10)

1. (a) Write assembly program to perform 16 bit substraction using 1's complement. (10)

(b) Write a assembly language program in 8085 to find out a minimum and maximum values of given numbers. (10)

1. (a) What is a dynamic RAM? How and why is it refreshed? (10)

(b) What is an EPROM programmer? How are the programs introduced into the EPROM? (10)

1. (a) If a given microcessor has both Interrupt and DMA support for data transfer. What is the criteria for the selection of DMA than Interrupt? (10)

(b) What is DMA? Explain DMA transfer. (10)

1. (a) Explain briefly IDE, SCSI and ISA. (10)

(b) Briefly discuss about the difference between   
80486 and Pentium processor. (10)

1. (a) Describe the importance of preventive maintenance.   
    (10)

(b) Discuss about the preventive maintenance using power protection systems. (10)

–––––––––––––––

**22**

DE–2933

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

PC SOFTWARE (WORD STAR, LOTUS 1-2-3 AND  
DBASE III PLUS)

(Upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. (a) Explain in detail about spell check and Mail   
   merge. (10)
   1. (b) Explain features of Word Star. (10)
2. (a) What is an electronic worksheet? Explain at its features. (10)
   1. (b) Explain in detail about Lotus1-2-3. (10)
3. (a) Discuss about components of a worksheet. (10)
   1. (b) Write short notes on Avg, Count, PMT, MOD, SORT. (10)
4. (a) What are the special characters used to print the date and page Nos in footer and Header? (10)
   1. (b) Explain in detail about entering information in worksheet. (10)
5. (a) Explain about frequency distribution. (10)
   1. (b) Explain in detail regression and Parsing. (10)
6. (a) Explain the concept of creating a database file. (10)
   1. (b) Creating and viewing a graphs. (10)
7. (a) What is a database file, record and field? (10)
   1. (b) Explain in detail creating labels. (10)
8. (a) What the features involved in the report created in Dbase III Plus? (10)
   1. (b) Explain the following :
   2. (i) Making decisions with IF-End if. (5)
   3. (ii) Compact if Function- IIF( ). (5)

————————

DE-2934

**23**

DISTANCE EDUCATION

B.C.A DEGREE EXAMINATION, MAY 2008.

SYSTEM ANALYSIS AND DESIGN

(Upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

1. (a) Describe system concepts. (10)
   1. (b) List different types of systems and explain their characteristics. (10)
2. Expand and explain in detail about the term SDLC. (20)
3. (a) What is the role played by a system analyst? Elaborate. (10)
   1. (b) Bring out the features of MIS. (10)
4. (a) Explain different feasibility studies made during investigation. (10)
   1. (b) Describe any two fact finding techniques. (10)
5. How system costs and benefits are assessed? Explain in detail. (20)
6. (a) Explain the term "Structured analysis". (10)
   1. (b) What are the tools used by system analyst for structured analysis? Explain briefly. (10)
7. (a) Discuss briefly on different types of file organizations. (10)
   1. (b) Describe Relational Database design. (10)
8. (a) What are logical and physical design? Explain. (10)
   1. (b) "I/O design" - Bring out the design principles and their implications. (10)

————————

**24**

DE-2935

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

UNIX AND C

(upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

1. Explain UNIX file system Architecture with neat diagram. (20)
2. (a) Explain three types of chmod with examples. (12)
   1. (b) Explain password and lock command with examples. (8)
3. (a) Discuss pr command with any three options. (12)
   1. (b) Discuss sorting commands with examples. (8)
4. (a) Write a UNIX shell program to check whether the number is prime or not. (10)
   1. (b) Explain types of IF statements. (10)
5. (a) Discuss the various types of constants in C with examples. (15)
   1. (b) Write short note on primary data types. (5)
6. (a) Give the syntax of switch statement and illustrate the features of switch statement. (12)
   1. (b) Compare DO..WHILE and WHILE statements. (8)
7. (a) Write a C program to arrange the names in alphabetical order. (10)
   1. (b) Discuss any five mathematical functions. (10)
8. (a) What is sequential file? How to create a file? (10)
   1. (b) Discuss array of structure with an example. (10)

———————

**25**

DE–2936

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

COMPUTER GRAPHICS

(Upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. Explain any four display devices.
2. Explain in detail about graphics standard software.
3. Explain in detail about any one line drawing algorithm.
4. Explain two dimensional basic transformation.
5. Explain the circle generation algorithm.
6. Explain convex polygon clipping.
7. Write Cohen Sutherland algorithm and explain.
8. Explain parallel projections and perspective projections.

–––––––––––

**31**

DE–2937

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

BUSINESS COMMUNICATION

(Upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. (a) Write a note on the functions of a business letter.

Or

* 1. (b) Explain the essentials of an effective Business letter.

1. (a) Discuss the solicited and unsolicited enquiries.

Or

* 1. (b) Explain the important points that should be kept in mind while drafting an offer.

1. (a) Enumerate the important guidelines for drafting replies to defective or incomplete orders.

Or

* 1. (b) You have received an order from Dressland, Belgaum, for different varieties of men's and women's dresses. Write a reply giving the time and mode of shipment. Also mention the mode of payment you prefer.

1. (a) What factors should be kept in mind while responding to a complaint letter if the claim is to be refused?

Or

* 1. (b) Explain the guidelines should be kept in mind to write an effective collection letters.

1. (a) What is circular letters? What are the advantages of circular letter?

Or

* 1. (b) What is sales letters? Discuss the objectives of sales letters.

1. (a) Draft a suitable reply to the manager of a firm who has expressed a desire to open a current account with your bank.

Or

* 1. (b) Write a letter to intimating the maturity of a policy.

1. (a) Draft a letter to announcing the cancellation of an agency.

Or

* 1. (b) Draft a minutes of the first meeting of the Board of Directors of a joint stock company.

1. (a) Write a sales manager's report on increasing competition from rival enterprises and suggestions to   
   overcome it.

Or

* 1. (b) Write a letter to appear for an interview for the post of an assistant accountant.

–––––––––––

**32**

DE–2938

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

WINDOWS AND VISUAL BASIC

(Upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. (a) Explain Hardware and Software required for loading windows.
   1. (b) Explain start up menu.
2. (a) Explain how will you open and close the group windows.
   1. (b) Explain any five file manager commands.
3. (a) Explain various editing features in windows.
   1. (b) Explain various formats and layouts in detail.
4. (a) Explain about multimedia windows.
   1. (b) How will you change the system setting with setup?
5. (a) Explain any five tools in Visual Basic.
   1. (b) Write short notes on Screen controls and events.
6. (a) Explain how will you run and test Visual Basic program?
   1. (b) Write a Visual Basic code to solve the quadratic equation.
7. (a) Write a Visual Basic code to find the sum of the given set of numbers.
   1. (b) Explain procedure with an example.
8. (a) Explain frames and drawing objects in Visual Basic.
   1. (b) Write short notes on MDI form.
9. ————————

**33**

DE–2939

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

INTERNET AND JAVA PROGRAMMING

(upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. (a) Briefly explain about Network Architecture. (10)
   1. (b) Explain IP diagram with an example. (10)
2. (a) Discuss about Transport layer. (10)
   1. (b) Define Fragmentation, Routing. (10)
3. (a) Explain Web Server and Web Browser. (10)
   1. (b) Discuss about E-mail. (10)
4. (a) Explain about Telnet and Domain Name Server.   
    (10)
   1. (b) Explain about E-Commerce. (10)
5. (a) Discuss about Self education. (10)
   1. (b) Explain Internet resources. (10)
6. (a) What do you meant by Type casting and Type conversion? Explain. (10)
   1. (b) Explain with example Do while and Switch Statement. (10)
7. (a) Explain data types of variables with an example.   
    (10)
   1. (b) Define Exception, Discuss about Exception Handling. (10)
8. (a) How will you create an Applet? (10)
   1. (b) Explain different operation in String Handling. (10)

———————

34

DE–2940

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

OFFICE AUTOMATION

(Upto 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.  
 (5 × 20 = 100)

1. (a) Draw a document window with associated tool bars and explain each one of them.
   1. (b) How to create to document? Write the procedure for opening, saving, closing a document.
2. (a) What are the various ways to finding the document?
   1. (b) Write the procedure for printing a document.
3. (a) Explain the format feature in word.
   1. (b) How to create a table in word and explain the auto formatting table?
4. (a) What is formula bar? How to create formula in Excel?
   1. (b) How to copy and move information in an Excel work sheet?
5. (a) How to add and remove rows and columns in excel?
   1. (b) What is primary key? How to set the primary key in Access Table?
6. (a) What is a query? How to create, save and edit a query?
   1. (b) Explain the features of Report in Access. How to create it using Report Wizard?
7. (a) Explain the applications of M.S. power point.
   1. (b) Create a power point presentation for marketing company product.
8. (a) How to create a word handout from a power point presentation?
   1. (b) Write short notes on :
   2. (i) PI chart and
   3. (ii) Bar graph in excel
   4. (iii) Sorting records in access.

——————

DE–2941

**35**

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

RDBMS AND ORACLE

(Up to 2002)

Time : Three hours Maximum : 100 marks

Answer any FIVE questions.

1. Elaborate on schema and subschema with examples.
2. Explain in detail the mapping operations.
3. Write a note on the different types of databases available.
4. (a) Explain the benefits of Oracle.

(b) Write on the Client/Server technology.

1. Write the syntax and explain with example any five SQL commands.
2. Explain in detail union and multiple-part queries.
3. How are tables created and defined?
4. Write in detail on embedded SQL and its statements.

————————

**16**

DE–3621

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

LAB I –– FORTRAN AND COBOL PROGRAMMING

(upto 2002)

Time : Three hours Maximum : 100 marks

Answer ONE question from each set.

Students has to be select one question from each set by lot system.

Cut here

FORTRAN PROGRAMS

1. Write a Fortran program to generate the 10 Fibonacci numbers 0, 1, 1, 2, 3, 5, 8, 13, 21, 34.

Cut here

1. Write a Fortran program to find the sum of digits of a given number.

Cut here

1. Write a Fortran program to find the area of the triangle whose sides a, b, c are given, using the formula
   1. area = where .
2. Write a Fortran program to find value using the formula  where .

Cut here

COBOL PROGRAMS

1. Write a Cobol program to convert Fahrenheit value into centigrade value using the formula .

Cut here

1. Write a Cobol program to find the given number is ODD or EVEN.

Cut here

1. Write a Cobol program to find the smallest among given   
   *n* numbers.

Cut here

1. Each record of an input file contains the students roll number, marks obtained and name. Write a Cobol program to find the number of persons in the following mark group.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 0–34, | 35–49, | 50–59, | 60–70, | 71–89, | 90–100. |

———————

**26**

DE–3622

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

LAB II — DBASE AND C LAB

(Upto 2002 Batch)

Time : Three hours Maximum : 100 marks

Examiner should select and give ONE question to each.

Each question has two sub divisions.

Cut here

1. (a) Write a C program using pointers to find the sum of the element in an array containing n elements.
   1. (b) Write a command file in dbase to prepare mailing label for 20 students.

Cut here

1. (a) Write a C program to arrange n numbers in ascending order.
   1. (b) Write a menu oriented dbase program to include all editing options.
2. (a) Write a C program to Add two matrices using pointers.
   1. (b) Create a dbase file, which contains the following fields.
   2. Name 25 characters.
   3. Regnum. 6 digits.
   4. Mark1 3 digits
   5. Mark2 3 digits
   6. Mark3 3 digits
   7. Mark4 3 digits

Cut here

1. (a) Write a C program to find the factorial of a number using recursion.
   1. (b) Develop a dbase program for library management by storing Book-num, Name of author, Title of the Book in file, which furnishes the details of information available in file.

Cut here

1. (a) Write a C program to find the biggest of four numbers using if conditions.
   1. (b) Write a dbase program to update a database file, to delete a record from the file and add a Record from a file. Develop a menu-formatted screen.
2. (a) Write a C program to find the minimum out of 20 numbers without using array.
   1. (b) Develop a dbase program that stores.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | char | 25 |  |
| Height | Real | 8 | 2 |
| Weight | Real | 8 | 2 |

* 1. Pick the Tallest person and sort records using Height.

Cut here

1. (a) Write a C program to print the prime numbers between 100 and 200.
   1. (b) Write a dbase program to create the databases of Master file and Transaction file then update the Master file with the contents of Transaction file.

Cut here

1. (a) Write a C program to sort the given set of names in alphabetical order.
   1. (b) Write a dbase program to check Whether the given number is Armstrong number or not.
2. (a) Write C program to merge two data files.
   1. (b) Write a command file in dbase to prepare mailing label for 20 students.

————————

**36**

DE–3623

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

LAB III — ORACLE AND VISUAL BASIC

(Upto 2002)

Time : Three hours Maximum : 100 marks

Examiner should select and give ONE to each candidate by lot system.

Answer ONE question.

Each question has TWO Subdivisions.

Cut here

1. (a) To create procedure for string manipulation and Date functions.

(b) Create a PL/SQL program to generate fibonacci series and check the generated number is prime or not.

Cut here

1. (a) Write a VB program to do simple arithmetic operations.

(b) Write a PL/SQL program to increase the salary by 1000 if job of the person is Manager. Create a table of name employee with the Fields EMPNO Number, EMPNAME, Varchar (15), DESIGNATION Varchar (15), SALARY NUMBER.

1. (a) Write a code procedure for adding/deleting items to and from the list.

(b) Write PL/SQL program to find the biggest of among four numbers.

Cut here

1. (a) Write a VB program to add set of array of integers using array.

(b) Create a table with corresponding fields.

|  |  |  |
| --- | --- | --- |
| Field Name | Type | Width |
| Passenger name | Varchar | 10 |
| Train name | Varchar | 15 |
| Train number | Numeric | 6 |
| Date | Date |  |
| Class | Varchar | (5) |
| Age | Numeric |  |

(i) Add 5 records

(ii) Display all the records

(iii) List the passengers who reserved for ‘Brindhavan’ express in the month of January.

(iv) List the passengers who will travel on 21.8.2006 by giving the train number.

(v) List the passenger who is below age 10.

1. (a) Write a VB program to animate a car picture.

(b) Create a table with the following fields.

|  |  |  |
| --- | --- | --- |
| Field Name | Type | Width |
| Acc No. | Number | 10 |
| Name | Varchar | 15 |
| Total | Number | 10 |
| Balance | Number | 10 |
| Date B | Date |  |
| Amount | Number |  |
| Month | Char (5) |  |
| Transaction | Char (5) |  |

(i) Display all inserted records.

(ii) List out the balance on 30.11.05 for the particular Acc No.

(iii) List the transaction mode for the particular Acc No. in the month of October 2005.

(iv) List Account which has got balance > = 10,000.

(v) List total amount transaction in the month of

June 2006.

Cut here

1. (a) Write a VB program to format the text like font style, fore color, Back color.

(b) Write a PL/SQL program to get a string and reverse it.

Cut here

1. (a) Write a VB program to read and write the files.

(b) Write a PL/SQL program for finding the factorial of a number.

1. (a) Create a code procedure to load text or image in rich text box by using file.

(b) Create a table with the following fields.

STUDENT NAME, MARK 1, MARK 2, MARK 3, TOTAL, AVERAGE with these fields do the following queries.

(i) Display all the inserted records.

* 1. Display all the records after updation of field TOTAL, AVERAGE.

(iii) List of students who got more than 60 in any single subject.

(iv) List of students who got more than 60 in all   
3 subjects.

(v) List of students who is AVERAGE below 50.

———————–