



Subject : Computer Organization & Architecture

B.C.A. - I / II / III

Day : Monday

Date : 11/04/2016



29227

Time : 10.00 AM TO 01.00 PM

Max Marks : 100 Total Pages : 1

N.B.:

- 1) Answer **ANY FOUR** questions from Section-I & **ANY TWO** from Section-II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections to be written in **SAME** answer book.

SECTION-I

- Q.1 With the help of Block Diagram, Explain the Computer System and its various devices. [15]
- Q.2 What is Flip Flops? List and Explain the types of Flip-flops with diagram. [15]
- Q.3 Explain the following terms [15]
a) Full Adder b) Instruction Cycle
- Q.4 Define Computer Register. Explain the various Computer Registers with Symbol and function of each computer register for the basic computer. [15]
- Q.5 What do you mean Addressing modes? Write the different addressing modes. Explain the importance of each addressing mode. [15]
- Q.6 Discuss in detail Assembly Language and Machine Language. Write any Five Assembly Language statements. [15]
- Q.7 Write notes on (ANY TWO) : [15]
a) Binary Counter
b) Interrupt
c) Half Adder

SECTION-II

- Q.8 For the given Boolean function $F=xy+y'z+xz$ [20]
a) List the Truth Table
b) Draw the Logic Diagram and the Explain it.
- Q.9 Write the 1's and 2's Complements of [20]
a) 11011101 b) 10001001
c) 11011001 d) 11011101
- Q.10 Perform the Arithmetic addition for the following binary numbers [20]
a) 01010110 b) 01001111
+ 00010001 + 00010001

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Subject : Applied Database Management concepts using Oracle

B.C.A. - I / III / III

Day : Wednesday

Date : 13/04/2016



29228

Time : 10.00 AM TO 01.00 PM

Max Marks : 100 Total Pages : 1

N. B. :

- 1) Attempt **ANY FOUR** questions from Section – I.
- 2) Attempt **ANY TWO** questions from Section – II.
- 3) Answers to both the sections should be written in the **SAME** answer book.

SECTION - I

- Q. 1 Explain CODD's rules that qualify database as a relational database. (15)
- Q. 2 What is SQL? Explain the various data types and components of SQL. (15)
- Q. 3 Explain the Arithmetic, Relational and Logical operators in SQL. (15)
- Q. 4 Explain any 5 aggregate functions and any 5 string functions with example. (15)
- Q. 5 What is sequence? What is its use? Explain the syntax of creating sequence. Write a sequence to generate numbers from 1 to 50. (15)
- Q. 6 What is PL/SQL? Explain advantages of PL/SQL over SQL. (15)
- Q. 7 What are stored procedures and functions? Explain the difference between them. (15)

SECTION - II

- Q. 8 Consider the following table structure:
Client_Master(Cno (PK), Name, City, Balance_Due)
Sales_Order(Order_No (PK), Order_Date, Cno (FK), Delivery_Date, Order_Status)
Write SQL Queries to:
- a) Create above tables with proper constraints. (04)
 - b) Insert 2 records in both the tables. (02)
 - c) Find the names of clients having alphabet 'a' as a second letter in their name. (02)
 - d) Find the names of clients who stay in 'Mumbai' or 'Delhi'. (02)
 - e) Print the orders placed in the month of January. (02)
 - f) Display orders placed by client 'Ram'. (02)
 - g) Add column Phone Number to Client_Master table. (02)
 - h) Delete column order_status from Sales_Order table. (02)
 - i) Display the list of clients with their Balance_due in descending order. (02)
- Q. 9 Write a PL/SQL Block to :
- a) Write a PL/SQL Block to display numbers 1 to 10 using For Loop. (10)
 - b) Write a PL/SQL Block to generate Multiplication table of Number 5. (10)
- Q.10 Write short notes on (ANY TWO) (20)
- a) Views
 - b) Set operators
 - c) Cursor



Subject : C Programming - II
B.C.A. - I / II / III

Day : Monday
Date : 18/04/2016



Time : 10.00 AM TO 01.00 PM
Max Marks : 100 Total Pages : 1

N.B:

- 1) Attempt **ANY FOUR** questions from Section –I and attempt **ANY TWO** From Section- II.
 - 2) Answers to both the sections should be written in **SAME** answer book.
 - 3) Figures to the right indicate **FULL** marks.
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SECTION-I

- Q.1** What is pointer? Why it is essential? Explain how you relate it with arrays. (15)
- Q.2** What is the need of user defined data types in C? Describe how C- language supports it. (15)
- Q.3** What is FILE pointer? Comment on return value of fopen (). List and describe file handling functions used for formatted output and input. (15)
- Q.4** a) Explain how Union is different from Structure. (15)
b) Describe use of command line arguments.
- Q.5** What types of functions are there in “string.h”? List and describe any six functions from it. (15)
- Q.6** Explain when to use recursion? Also comment on its advantages and disadvantages. (15)
- Q.7** Write short notes on any **TWO** of the following: (15)
a) Preprocessors
b) Generic pointer
c) “graphics.h”

SECTION-II

- Q.8** Write a program to copy content of one file to into another. When coping make sure that lines which starts with the pattern “the” or “The” are not copied. (20)
- Q.9** Define a structure Employee with fields emp_no, e_name, dept, phone and basic_salary. Use this structure to create list of employee with functionality to search employee and display information of it. Also get employee list of particular department. (20)
- Q.10** a) Write a program to read numbers from file and print sum of prime numbers in it. (20)
b) Write a function to copy and append content of one string into another.



AMOOR- II (2014 Course) CBCS : SUMMER - 2016

Subject : Financial Management & Accounting

B.C.A. - I / II / III

Day : Thursday

Date : 21/04/2016



Time : 10.00 AM TO 01.00 PM

Max Marks : 100 Total Pages : 2

N.B:

- 1) Attempt **ANY FOUR** questions from Section I and **ANY TWO** questions from Section II.
- 2) Solve both sections in **SAME** answer book.
- 3) Figures to the right indicate **FULL** marks.
- 4) Use of calculator is **ALLOWED**.

SECTION-I

- Q.1 Explain the Principles of Double Entry Book-keeping System and rules of preparation of Journal. (15)
- Q.2 What do you mean by Cost sheet? Give a Performa of Cost sheet. (15)
- Q.3 Explain the Utility of Ratio Analysis for management. (15)
- Q.4 Explain the Concepts of Profit Maximization and Wealth Maximization. (15)
- Q.5 Write techniques of Inventory Management. (15)
- Q.6 Explain the following techniques of Capital Budgeting. (15)
- i) Net Present Value
 - ii) Pay Back period
 - iii) Profitability Index.
- Q.7 Write short notes on (ANY TWO): (15)
- a) Profitability Ratio
 - b) Equity Shares
 - c) Venture Capital

SECTION-II

- Q.8 Enter the following Business transactions in the Books of Amit for the year 2014. (20)
- | | |
|---------|--|
| June 1 | Invested Machinery worth Rs. 5, 00, 000 into business. |
| June 2 | Purchased goods from Pritam Ltd. worth Rs. 8,00,000 @ 2% trade discount. |
| June 3 | Sold goods to Sahil worth Rs. 5,00,000 @ 5% trade discount. |
| June 4 | Received cash from Sahil Rs. 35,000. |
| June 5 | Paid for Administrative Expenses Rs. 20,000. |
| June 6 | Received Commission Rs. 24,000 from Sudha. |
| June 7 | Purchased office equipment worth Rs. 6,50,000 from Rohan. |
| June 8 | Paid cash to Rohan Rs. 15,000. |
| June 9 | Purchased goods on cash basis Rs. 55,000. |
| June 10 | Paid for Carriage Rs. 15,000. |

P.T.O.

- Q.9 For the production of 5,000 units the following are budgeted expenses. (20)

Particulars	Cost Per Unit Rs.
Direct material	120
Direct labour	60
Variable overhead	45
Fixed overhead (100% Fixed)	25
Variable expenses (direct)	10
Selling expenses (10% fixed)	50
Administration expenses (100% fixed)	15
Distribution expenses (20%fixed)	8

Prepare a flexible budget for 6,000 and 8,000 Units.

- Q.10 The following information is available for Product P and Q. (20)

Particulars	Product P Rs	Product Q Rs
Sales	10,00,000	12,00,000
Marginal Cost	7,00,000	9,00,000
Fixed Cost	1,50,000	1,50,000

You are required to calculate for Product P and Product Q.

- | | |
|-----------------------|----------------------|
| i) Profit | ii) P/v Ratio |
| iii) Break Even Sales | iv) Margin of Safety |

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