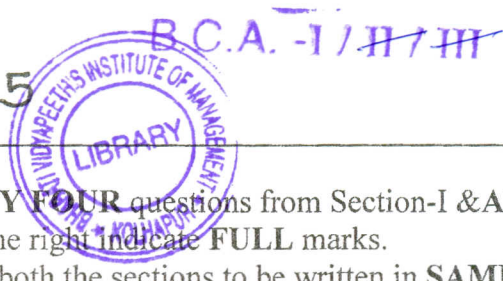


AMoor-II (2014 COURSE) : SUMMER-2015  
SUBJECT: COMPUTER ORGANIZATION & ARCHITECTURE

Day: **Saturday**  
Date: **11-04-2015**



Time: **10:00AM TO 1:00 P.M.**  
Max. Marks: 100

**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** Draw and explain the block diagram of computer and write the functions of each component. [15]
- Q.2** What is register? Explain various types of register in computer with their symbol and functions. [15]
- Q.3** What is flip – flops? Explain different kinds of flip-flops. [15]
- Q.4** What are various types of computer memory? Explain their types and purposes. [15]
- Q.5** Explain various peripherals devices of computer with their functions. [15]
- Q.6** What is micro operation? Write various categories of micro operations? [15]
- Q.7** Write notes on (**ANY TWO**) : [15]  
a) Machine Language  
b) Addressing Modes  
c) CPU

**SECTION-II**

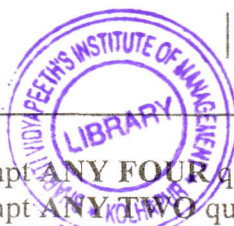
- Q.8** Write the 1's and 2's complement of [20]  
a) 11000110                      b) 11001101  
c) 11100010                      d) 10011101
- Q.9** Write the binary and octal equivalent for the [20]  
a) 16                      b) 26                      c) 58                      d) 12
- Q.10** For the Boolean functions  $F = xyz + z'y + xz$  [20]  
a) Write the truth table of the function  
b) Draw the logic diagram and explain it.

**Subject : Applied Database Management Concepts Using Oracle**

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

Day : Monday

Date : 13/04/2015



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 What is oracle? Explain the various tools of Oracle. (15)
- Q. 2 Explain DDL, DML and DQL with example. (15)
- Q. 3 What are data constraints? Explain the various data constraints with example. (15)
- Q. 4 What are views? Explain how views help to achieve data security. Give the syntax for creating a view and explain it with an example. (15)
- Q. 5 What is PL/SQL? Explain various sections in PL/SQL block with example. (15)
- Q. 6 What are Triggers? What are its types? Explain the syntax of creating trigger with an example. (15)
- Q. 7 What is Cursor? What are the different types of cursors? Explain the procedure of creating Explicit cursor. (15)

**SECTION - II**

- Q. 8 Consider the following table structure:  
 Programmer( Pno (PK), Pname, Date\_of\_Birth, Course, Data\_of\_Joining, Proficiency)  
 Software(S\_id (PK), Pno(FK), Title, Development\_Environment, Development\_Cost, Selling\_Cost, Copy\_sold)  
 Write SQL Queries to:
  - a) Create above tables with proper constraints. (04)
  - b) Insert 2 records in both the tables. (02)
  - c) Display the names of programmers who have done 'MCA'. (02)
  - d) Display the softwares developed in 'Java' or 'VB.NET' environment. (02)
  - e) Display the softwares developed by programmer 'Rahul'. (02)
  - f) Display the software in descending order on field selling cost. (02)
  - g) Display the name of programmers whose Date of Birth comes in the month of 'August'. (02)
  - h) Update the table software and increase the selling cost by 1000, whose development environment is 'Java'. (02)
  - i) Delete software whose sales is less than 1000 units. (02)
- Q. 9 Write a PL/SQL Block to:
  - a) Enter a number and check whether it is odd or even. If it is odd then display its square else display its cube. (10)
  - b) To display a multiplication table of number 5. (10)
- Q.10 Write short notes on: (**ANY TWO**) (20)
  - a) Sequence and its usage
  - b) Aggregate Functions
  - c) Joins

**AMoor- II (2014COURSE): SUMMER- 2015**  
**SUBJECT: C PROGRAMMING -II**

Day: Wednesday  
Date: 15-04-2015

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

Time: 10.00 A.M. To 1.00 P.M.  
Max Marks: 100

**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.

**SECTION-I**

- Q.1** What is dynamic memory allocation? Explain role of malloc(), calloc(), free() and realloc() functions. (15)
- Q.2** List the keywords in C used to create user defined data types and also explain usage of it. (15)
- Q.3** What is a file? What are its attributes? Explain how file handling functions are used to check whether a file exist or not. (15)
- Q.4** a) Illustrate how structure is different from an array? (14)  
b) Explain self referential structure.
- Q.5** Define recursion. Explain how it works with example. (15)
- Q.6** What types of functions are there in "ctype.h"? List and describe any six functions from it. (15)
- Q.7** Write short notes on any **TWO** of the following: (15)
- a) limits.h
  - b) Formatted input/ output
  - c) Constant pointer

**SECTION-II**

- Q.8** Define a structure Book with fields isbn, title, author, price, Use it to create a list of books. Add functionality to display list of books and sort it by price. (20)
- Q.9** Write a program to copy contents of one file to other using command line arguments with following options. (20)
- a) File to read exists or not.
  - b) File to write exists or not. If not create a new file otherwise ask user to overwrite it or not.
- Q.10** a) Write program to copy content of one string into another using user defined function with pointer. (10)  
b) Write a program to read numbers from file and print average of them. (10)

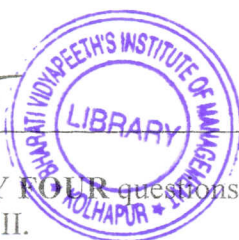


AMOOR-II (2014 COURSE): SUMMER-2015  
SUBJECT: FINANCIAL MANAGEMENT AND ACCOUNTING

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

Day: Thursday  
Date: 16-04-2015

Time: 10:00 A.M. To 1:00 P.M.  
Max. Marks: 100



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 following terms. i) Ledger ii) Balance Sheet (15)
- Q.2 How the costs are classified Element wise and Function wise. (15)
- Q.3 Write a note on Labour Cost Variance Analysis. (15)
- Q.4 Explain the following Sources of Long Term finance. (15)  
i) Equity Shares ii) Preference Shares
- Q.5 Explain the factors affecting requirement of Working Capital of a manufacturing firm. (15)
- Q.6 Write a detailed note on Ratio Analysis. (15)
- Q.7 Write short notes on (ANY TWO): (15)  
a) Matching of Cost and Revenue Concept  
b) Net Present Value  
c) Profit Maximization and Wealth Maximization

**SECTION-II**

- Q.8 Enter the following Business transaction in the Books of Madhura for the year 2014. (20)
- |          |   |
|----------|---|
| April 1  | Invested cash Rs. 1,00,000 into business.                               |
| April 2  | Purchased goods from Ankur Ltd. worth Rs. 8,00,000 @ 2% trade discount. |
| April 3  | Sold goods to Nisha worth Rs. 6,00,000 @ 5% trade discount.             |
| April 4  | Received cash from Nisha Rs. 35,000.                                    |
| April 5  | Paid for office Expenses Rs. 15,000.                                    |
| April 6  | Received Commission Rs. 20,000 by cheque from Sudhan.                   |
| April 7  | Purchased Machinery worth Rs. 10,00,000 from Ratna Ltd.                 |
| April 8  | Paid cash to Ratna Ltd. Rs. 45,000.                                     |
| April 9  | Purchased goods from Sadashiv on cash basis Rs. 20,000.                 |
| April 10 | Paid for stationery Rs. 3,000.  |

Q.9

For the production of 8,000 units the following are budgeted expenses.

(20)

Particulars	Cost Per Unit Rs.
Direct material	120
Direct labour	100
Variable overhead	60
Fixed overhead (100%)	90
Variable expenses (direct)	40
Selling expenses (10% fixed)	30
Administration expenses (100% fixed)	20
Distribution expenses (20% fixed)	10

Prepare a flexible budget for 10,000 and 12,000 Units.

Q.10

The following information is available for Product A and B.

(20)

Particulars	Product A Rs.	Product B Rs.
Sales	10,00,000	12,00,000
Marginal Cost	7,00,000	8,50,000
Fixed Cost	1,50,000	2,00,000

You are required to calculate for Product A and Product B.

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

\* \* \* \* \*