

Sai Nath University

Assignment For B.Sc - IT 3RD Sem.

The Assignment will consist of two parts, A and B. Part A will have 5 short answer questions(40-60 words) of 4 marks each. Part B will have 4 long answer questions of 5 marks each.

All questions are compulsory.

These Assignments should be completed and submitted in written form by the student to his/her respective Faculty/ Examiners. Assignment Submission Dates are:

➤ **Nov-17**

List Of Suggested Questions

The list of suggested questions is for students to practice. Although optional, we recommend that students solve these questions, as they will help them in preparing for exams as well as in clearing the important concepts of the subject.

List of Practical and suggested practical's

The list of practical's should be done by the students in their Lab Sessions. These are the basic practical's, which each student should be able to do himself independently. While the list of suggested practical's are optional, but it is recommended that students should perform those practical so as to have a thorough knowledge of the subject

Education Delivery Schedule (EDS)

As per University Semester scheme, the minimum contact hours of each paper has been Divided into two hours theory and practical class.

The faculty will maintain this attendance paper wise for his/her batch.

Subject Code	Subject Name
BSIT-301	Computer System Architecture
BSIT-302	Principles of Management
BSIT-303	Programming in C++
BSIT-304	RDBMS-II
BSIT-305	Software Lab-III

SAI NATH UNIVERSITY

Cover page of Assignment

ID NUMBER
NAME
COURSE B.Sc-IT.....
STREAM
SEM 3RD
SUBJECT CODE
SUBJECT NAME

Assignments will be completed by the Student in his/her own and writing.

B.Sc - IT_-301
Computer System Architecture
Part A

1. Explain the logic diagram of a 3 x 8 Decoder?
2. Explain three Displacement Addressing mechanisms with the help of examples .
3. (23.125) 10 to Hexadecimal number.
4. (6B•28) 16 to Binary number .
5. What are the various fields of a simple instruction ? Explain with the help of a

Part B

1. Simplify the following function using K-map :
$$F(A, B, C, D) = 1(2, 6, 10, 14)$$

Draw the resultant logic diagram.
2. What are flip-flops ? Describe the construction of a master-slave flip-flop using R-S flip-flops.
3. What is an interrupt ? Explain the processing of an interrupt in 8086 microprocessor with the help of a diagram.
4. Explain the use of Code Segment (CS) and Data Segment (DS) registers in 8086 microprocessor with the help of examples.

B.Sc - IT_-302
Principles of Management
Part A

1. What is decentralization?
2. What is power motive?

3. Give the meaning of social need.
4. What are various types of functional budget?
5. comparison between the public limited company and private limited company

Part B

1. Discuss the various functions of management.
2. What are steps involved in planning? And explain.
3. Explain various techniques in selection process.
4. What is budgetary control and explain its significance

B.Sc - IT -303

Programming in C++

Part A

1. What is object oriented programming ? Explain its advantages over structured programming.
2. What is a constructor ? Explain how constructors are overloaded in C++, with the help of an example.
3. What is a stream manipulator ? Explain the use of setw() and setprecision() as a stream manipulator..
4. Write a C++ program to check whether a given number is an even number or an odd
5. What is dynamic binding ? Explain with the help of an example.

Part B

1. Write a C++ program to define a class "Account". Derive a "Saving_Account" class from the Account class. Define appropriate constructors for both the classes. Also define a method to display the account balance. Make necessary assumptions, if required.
2. What is function overloading ? Explain how it is implemented in C++.
3. Write a C++ program to overload '+' operator to find the sum of two complex , numbers.
4. Write a C++ program to create a class "Number" with a constructor to initialize the object of "Number" class with one integer value. Define member functions to find the square of a number and for displaying it.

B.Sc - IT_-304
RDBMS-II
Part A

1. Differentiate between stored function and store procedure with example..
2. Explain Thomas Write rule with suitable example.
3. What is key? Comparison between candidate key , primary key and foreign key.
4. What is transaction? Write the properties of transaction.
5. What is data dictionary? Explain the DDL and DML.

Part B

1. Discuss the client server architecture used in case of database storage and retrieval.
2. Explain with syntax and least two data manipulation commands of oracle.
3. Discuss various locking techniques in concurrency control.
4. Name various database models. Discuss any two of them in detail by taking suitable example of Your choice.

BSIT-305 PRACTICAL Part A

- 1 write program in c++ print “C++ is better than c”.
2. write c++ program using loop print.

```

      1
    1 2
  1 2 3
1 2 3 4
1 2 3 4 5

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3. Write a c++ program find out the number is prime or not. And number is enter by user.
4. Write C++ program of addition of two number and number is enter by user .
5. Write program for sorting.

Part B

1. Create a table of employee and enter the 50 employee record and update the record and also modified the record using mysql or oracle.
2. Create table of employee using primary key and foreign key .
3. Write a program of Array, searching the element of Array. If element is present then found otherwise not found.
4. Write an C++ Program sort the element. Enter 15 element in array.