Sai Nath University

Assignment For BCA 5TH 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 practicals 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
BCA 510	Computer Network
BCA 520	Software Engineering
BCA 530	Internet & Web Technology
BCA 540	.Net Framework & C#
BCA 550	Practical

SAI NATH UNIVERSITY

Cover page of Assignment

ID NUMBER ....

NAME ....

COURSE BCA...........

STREAM ....

SEM 5ST...

SUBJECT CODE ....

SUBJECT NAME ....

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

BCA 510

COMPUTER NETWORK

1. Explain Internet, Intranet and Extranet in detail**.**
2. Explain Frame Format of IEEE802.4 (Token Bus).
3. What is TCP protocol and UDP protocol? Differentiate between TCP and UDP.
4. Explain OSI layer and TCP/IP and comparison between OSI and TCP/IP.

5. What is network bridge? How many type of network bridge?

Part B

1. Write short note on following-
   I. SMTP
   II. Pop3
   III. ICMP
   IV. HTTP
   V. FTP
   VI. MIME
2. Write short note DNS. Draw the figure and explain it.
3. What is congestion control? Write technique to control congestion.
4. Write short note IP ADDRESS. What is subnet ? And write on IP protocol.

BCA 520

Software Engineering

Part A

1. What is Water fall model? Explain.

2. Differentiate between validation and verification.

3. Write is testing. Explain white box testing and black box testing.

4. What do you mean α and β testing. Explain in brief.

5. What are CASE tools?

Part B

1. Explain Cohesion and coupling and its types.

2. What is the difference between SRS document and design document?

3. What is DFD? Explain its level.

4. What is CMM level? Explain.   Explain Gantt and pert chart.

BCA 530

Internet & Web Technology

Part A

1. Differentiate Static web pages and Dynamic web pages.

2. What is SOAP?

3. How Cookies are handled in PERL?

4．What does CGI Environment variables denote？
5. What are the ways by which a server and browser can communicate.

Part B

1. What are the various ways by which authorization an Security can be imposed in the Internet?

2. Explain the HTML DOM. How it is used to design the web page?

3. Design a HTML form for a railway reservation system.

4. What is Internet Commerce? Mention its types and explain them.

BCA540

.Net Framework & C#

Part A

1. Differentiate value type and reference type.

2. What is the use of static constructor in C#?

3. List out the different types of applications that can be created on .NET.

4. What are the uses of server side controls?

5. What is the difference between SingleCall and Singleton?

Part B

1. List out the various value and reference types supported in C#.

2. Describe the components of the .NET framework and explain the features of each component.

3. List out the exception handling statements supported in C# and explain with an example.

4. List out the categories of controls supported in window based application and explain the importance of each.

BCA 150

PRACTICAL

Part A

1.Design a web page of SAI NATH UNIVERSITY. Using html and CSS .

2. Create note pad in c#.

3. Write a C# Sharp program to swap two numbers.

4.Write a C# Sharp program to print the output of multiplication of three numbers which will be entered by the user.

5. Write a program in C# Sharp to count the number of lines in a file

Part B

1. Write a program in C# Sharp to create a blank file in the disk newly.

2. Write a program in C# Sharp to create a file and move the file into the same directory to another name.

3. write a code in c#

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

4. Write a C# program to that takes a number as input and display it four times in a row (separated by blank spaces), and then four times in the next row, with no separation. You should do it two times: Use Console. Write and then use {0}