

Sai Nath University

Assignment For MCA 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
MCA 510	Computer networks & internet
MCA 520	Artificial intelligence
MCA 530	Java enterprise
MCA 540	Programming lab- v (with java enterprise)

SAI NATH UNIVERSITY

Cover page of Assignment

ID NUMBER
NAME
COURSE MCA.....
STREAM MCA.....
SEM 5th
SUBJECT CODE
SUBJECT NAME

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

MCA 510
Computer networks & internet
Part A

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.

MCA520

Artificial Intelligence

Part A

1. What are the technique used in measuring? Explain.
2. What is alpha- beta planning strategy?
3. What is unification algorithm? Explain with example.
4. What is machine learning? Explain the Supervised learning and unsupervised learning.
5. Explain countable functions and predicates.

Part B

1. Write the definition of artificial intelligent and explain A* and AO* algorithm
2. Discuss the comparison between DFS and BFS with various type of control strategies.
3. Explain bayes' theorem and prove that how fuzzy logic is different from binary logic with example.
4. What do you mean by expert system? Explain "MYCIN" in depth with block diagram.

MCA 530

Java Enterprise

Part A

1. What is servelet ? Explain in detail.
2. Write servlet class to demonstrate data base connectivity.
3. Differentiate between http servelet request and http servelet response.

4. Write the life cycle of jsp page.
5. Briefly describe inter servlet communication.

Part B

1. What is scriptlet in jsp. Write the a program to demonstrate to the use of scriptlet.
2. What are the ways by which a server and browser can communicate
3. difference between get and post method of the form.
4. write the sort note on following:
 - A. Web server
 - B. Application server
 - C. Expression language in jsp
 - D. Jsp include action

MCA540

Programming Lab- V (with Java Enterprise)

Part A

1. Write a jsp program to connecting with database.
2. Write a jsp program for display “HELLO”.
3. Write program for login page in jsp.
4. Write a program for session tracking.
5. Write a program handling client http request and server response.

Part B

1. Write a program using jsp that enables any student change addresses in database.

2. Write a jsp program to design of a student by accepting the mark of five subject.
3. Write a jsp program to create a form to entry data into the database.
4. Write a jsp program to update data into database.