J.S University

Assignment For B.TECH in computer science Engineering 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 2 long answer questions of 10 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:

List Of Suggested Questions

The list of suggested questions are 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.

J.S UNIVERSITY

Cover page of Assignment

ID NUMBER ……

NAME ……

COURSE B.TECH

STREAM CS ……

SEM 5^{TH} SEM……

SUBJECT CODE ……

SUBJECT NAME ……

J.S. University

B.tech CS 5th Semester

Design and Analysis of Algorithms

Part A

Q1.what is Complexity of algorithms?

Q2.what is Growth of functions of algorithim

Q3what is Shell sort?

Q4.what is :Red-Black trees?

Q5.Minimum Spanning trees – Prim's and Kruskal's algorithms

Part B

Q1.what is Divide and Conquer algorithim for sorting with examples.

Q2. describe Dynamic programming with examples such as Knapsack.

DBMS

Part A

Q1. What are Characteristics of database approach?

Q2. What are different data models?

Q3. What is DBMS architecture and data independence?

Q4. What is E-R Modeling?

Q5 What do you understand by Entity types, Entity set, attribute and key, relationships?

Part B

Q1 What is B & B++ trees, hashing, hashing functions, write implementation and performance.

Q2. What is Data Normalization, Functional Dependencies,write Normal form up to 3rd normal form giving suitable example.

Principle of Programming Language

part A

Q1.what is Role of Programming Languages: Why Study Programming Languages?

Q2.what are Programming paradigms?

Q3what is Syntactic structure?

Q4.what is language Translation Issues?

Q5 what are Stages in translation?

part B

Q1 what are Formal translation Models?

Q2. why is Grouping Of Data and Operations in object oriented programming required

Web Technology

part A

Q1.what is DOM and SAX?

Q2.what is client server computing?

Q3.what is Java Applet?

Q4.What is Event?

Q5.What is Exception Handling,?

Part B

Q1.Describe Web Page Designing:HTML: list, table, images, frames, forms, CSS.

Q2.DescribeServer Site Programming:Introduction to active server pages (ASP).

Computer Architecture

part A

Q1.what are different computer generation?

Q2.describe: Instruction types, formats?

Q3.describe different types of buses ?

Q4. describe memory organization.

Q5. describe different addressing modes.

part B

Q1.Describe Synchronous & asynchronous communication.

Q2.Describe concept of horizontal and vertical microprogramming.

Engineering Economics

part A

Q1.what is Engineering Economics and Managerial Economics ?

Q2.What is Concept of Efficiency?

Q3.what is Theory of Demand ?

Q4.what is Computation of Material Variances Break-Even Analysis?

Q5.what is Project Management

Part B

Q1.what do you understand by Elasticity of Demand?

Q2.what are Techniques and Applications of Managerial Economics.?