

J.S University

Assignment For B.TECH in computer science Engineering 4TH 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 4TH SEM.....
SUBJECT CODE
SUBJECT NAME

J S University B.tech CS 4 Semester

Industrial sociology

Part A

Q1. What is Industrial sociology?

Q2 write Importance of Industrial sociology?

Q3.what are types of productive systems?

Q4.what are labor courts?

Q5.what are industrial tribunals?

Part B

Q1.Describe industrial policy resolutions.

Q2.What are causes and consequences of industrialization?

Cyber security

Part A

- Q1. What is information system??
- Q2. What is need for information system?
- Q3. What are firewalls and VPN?
- Q4. What are Email security policies?
- Q5. What is cyber laws in india?

Part B

- Q1. Describe network and denial of services, attack, security threats to e commerce ?
- Q2. why security policies should be developed?

DISCRETE MATHEMATICS

- Q1. What is countable and uncountable sets?
- Q2. What is , Abelian group?
- Q3. What are the number of power sets in $\{1,2,25,3\}$.
- Q4. What is recursively defined functions?
- Q5. What is Hasse Diagram and Lattices?

Part B

- Q1. How many relations are there on a set with n elements that are symmetric and a set with n elements that are reflexive and symmetric?
- Q2. Show that $(P \rightarrow q) \vee (P \rightarrow r)$ and $(P \rightarrow (q \vee r))$ are logically equivalent.

Operating System

part A

Q1.What do you understand by operating System ?give two example?

Q2.Write main functions of operating system?

Q3.What is memory management ?

Q4.what is deadlock?

Q5.what are deadlock avoidance techniques?

Part B

Q1.What is paging?

Q2.What is reader writer problem?

Computer Graphics

Part A

Q1.What is the use of computer graphics?

Q2.What is bresenham's algorithm?

Q3.write major components of computer graphics?

Q4.explain five important application of computer graphics?

Q5.what is a raster system in resolution.

part B

Q1. Write DDA algorithm.

Q2.Differentiatebetween raster scan display and random scan display?

js university btech 4 semester

Introduction to microprocessor

part A

Q1.What is von neuman architecture?

Q2.what is Instruction sets?

Q3 what is different Addressing modes?

Q4.what is DMA Controller?

Q5.What is arithmetic operations, logical operations, branching operations?

Part B

Q1.write Architecture of 8 6 microprocessor: register organization, bus interface unit, execution unit, memory addressing, and memory segmentation.

Q2. what are Peripheral Devices 8255 programmable peripheral interface?

js university btech 4 semester
theory of automata and formal languages
part A

Q1.what are Regular Expressions?

Q2. what is Transition Graph?

Q3.what is Kleen's Theorem?

Q4.what is Finite Automata and Regular Expression-Arden's theorem?

Q5. what are Regular Languages and Computers, Simulation of Transition Graph and Regular language.

part b

Q1 what are Normal Forms-Chomsky Normal Form(CNF)?

Q2 what is Turing Machines and Recursive Function Theory