

B.TECH. DEGREE III SEMESTER (SUPPLEMENTARY) EXAMINATION IN  
INFORMATION TECHNOLOGY  
JUNE 2001

**IT 305 INTRODUCTION TO INFORMATION TECHNOLOGY**  
(1995 & 1998 Admissions)

Time: 3 Hours

Maximum Marks: 100

(Your answers should be brief and to the point)

- I. (a) Discuss the important applications of Information Technology. (12)  
(b) Distinguish between single user and multi user Information Technology. (8)

OR

- II. Develop an application for payroll calculation of employees in a Company, using any electronic spreadsheet. Give various cell formulae.
- |                    |   |
|--------------------|---|
| Basic Pay          | - 1500 for designation categories A & B |
|                    | - 2000 for designation category C       |
|                    | - 2500 for designation categories D & E |
| DA                 | - 189% of Basic Pay                     |
| HRA                | - 5% of Basic Pay                       |
| IR                 | - 15% of Basic Pay                      |
| General deductions | - 10% of the Basic Pay                  |
- Report should contain all the relevant details.  
(Assume any further details if you need. Assumptions should be clearly specified). (20)

- III. (a) Explain the significance of TCP/IP internet protocol in Information Technology. Also discuss the major functions provided by TCP/IP. (10)  
(b) Distinguish between Active and Passive hub with respect to computer network. (5)  
(c) What do you mean by DNS? How it is significant in internet? (5)

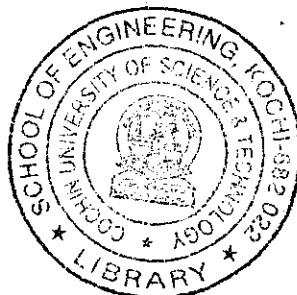
OR

- IV. (a) Discuss the Major issues in Information Technology. (10)  
(b) Differentiate between Client-Server and Peer-To-Peer computer networks. (5)  
(c) Enumerate the important physical topologies used for computer networks. Which is more suitable for the network in your department? (5)
- V. (a) Compare and differentiate between the important file organization techniques. (15)  
(b) How searching can be carried out in Direct Access files? (5)

OR

- VI. List out and describe basic data processing functions in a Textile manufacturing company. Illustrate information flow among different functions. (20)

(Turn over)



- VII. Write a Cobol program to update employees master file using a weekly transaction file. The master file contains details such as personal details of employees, No. of hours he has worked for a particular month, Amount he has already drawn towards salary etc. Transaction file contains along with employee details, hours of working for the particular week, amount drawn in that week. (Assumptions should be included as components in your program). (20)

OR

- VIII. Write a Cobol program which merges two files containing mark list for two subjects of students of a class, and prepare a rank list based on total marks. (Make suitable assumptions) (20)

- IX. (a) Write a brief account in computerized financial accounting system highlighting its major advantages. (15)  
(b) Write short notes on various types of reports. (5)

OR

- X. Explain important features of any one of the computerized financial accounting package. (20)

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