

B.TECH. DEGREE III SEMESTER (SUPPLEMENTARY) EXAMINATION IN  
INFORMATION TECHNOLOGY (1995 AND 1998 ADMISSIONS)  
OCTOBER 2000

IT 305 INTRODUCTION TO INFORMATION TECHNOLOGY

Time: 3 Hours

Maximum Marks: 100

(Answer all questions)  
(All questions carry equal marks)  
(Your answers should be brief and to the point)

- I. (a) Discuss the various elements of an IT system. Also explain the role of each in internet. (12)  
(b) Describe the salient features provided by any one spreadsheet. (8)

OR

- II. Develop an application for producing the rank list of students of a class using any spreadsheet. Give various cell formulae. The report should contain the following details:

- (i) Marks obtained in different subjects
- (ii) Maximum marks in each subject
- (iii) Highest and lowest marks awarded for a particular subject
- (iv) Class average in a particular subject
- (v) Total marks for a student
- (vi) Percentage of total marks for a student
- (vii) Class rank of a student based on total marks

(Make suitable assumptions) (20)

- III. (a) With reference to internet, explain any four of the following:  
(i) MIME  
(ii) PPP  
(iii) Gopher  
(iv) ARPANET  
(v) Socket (4 x 3 = 12)  
(b) Distinguish between Router and Gateway in a Computer Network. (5)  
(c) Explain the role of modem in Computer Communication. (3)

OR

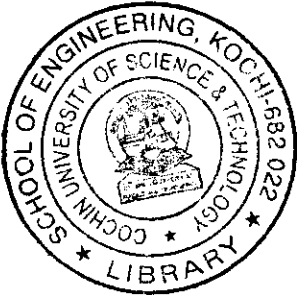
- IV. (a) Discuss on class A,B and C networks. With suitable examples explain the addressing schemes of each. (15)  
(b) Explain the relevance of each part in the address.  
http : // www. CUSAT. EDU (5)

- V. (a) Explain the different file organization techniques with the application areas of each. (12)  
(b) Briefly describe the various steps in data processing. (8)

OR

- VI. (a) Discuss the issues involved in Master file creation and maintenance of an application for computerized Bank Accounting System. (10)  
(b) Describe the various back up and file recovery procedures. (10)

(Turn Over)



VII. A table contains the monthly sales data for the 12 months of a year and for the 4 sales zones where each zone has 8 districts. Write a Cobol program to find the total sale of each district within each zone, and then find the total sale of each zone. (20)

**OR**

VIII. Develop a Cobol program to produce the total pass percentage report for SSLC Examination. (Overall pass taking into consideration of all subjects). Report should contain statistics of all subjects. (Assumption should be included as comments in the program). (20)

IX. Discuss the important features of any one of the financial accounting package. Give suitable examples for making explanation clear. Also mention the platforms in which the particular package can be used. (20)

**OR**

X. Explain the important components and benefits of computerized general ledger preparation. (20)

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