BTS 166 (A)

B.TECH. DEGREE III SEMESTER (SUPPLEMENTARY) EXAMINATION IN INFORMATION TECHNOLOGY JUNE 2002

IT 305 INTRODUCTION TO INFORMATION TECHNOLOGY

(1995 & 1998 Admissions)

Time: 3 Hours

П.

Maximum Marks: 100

- I. Describe the major problems in an organization that affect the design and operation of its information systems with an example. (20)
 - OR

 Professor Ram is getting close to retirement and is interested in the future value of his individual retirement account (IRA). He has calculated value (V) as

$$V = A \left[\frac{(1+r)^n - 1}{r} \right]$$
, where $A =$ the amount invested

each year, r = the rate of interest, n = number of years until retirement.

- (i) Suppose A = \$2000, r = 0.09 and n = 20 years. Develop a spreadsheet model to help him to determine the value of V.
- (ii) If r = 0.08 in part 1, how much less will there be in retirement account.
- (iii) Suppose the parameters A, r and n are increased separately by 10%, which parameter has the greatest effect upon V? (20)



(Turn over)

П.	(a)	Write short notes on the following: (i) EDI (ii) MIME (iii) Gopher (iv) HTML	(12)	VI.	Describe the various Data movement and arithmetic verbs in COBOL. (2)
		(iv) HTML	(12)	VII.	Write a COBOL program to update a master file by
	(b)	Describe the different types of addresses used in internet. OR	(8)	•	processing a transaction file. The master file has the record structure - Product-name, Product-code, Quantity-in-stock, Unit-price. The transaction file has
V.		What are the essential components of an Intranet? Describe what intranet achieves in an organization.	(20)		the record structure: Productname, Productcode, Quantity, Price and transaction code. The following are the transaction codes:
_			-		'a': to add the new record
/ .	(a)	In the IDENTIFICATION DIVISION certain paragrap			'b': to delete the record
		are optional and other parts of the division are mandato Describe the mandatory portion.	ory. (5)		'c' : change the unitprice 'd' : Add to stock.
		Describe the manufacty portion.	(5)		
	(b)	What is the difference between a literal and figurative constant? How many different types of constants are there in			The transaction file may contain the multiple entries of the same product and they need not be in any order. (20 OR
		COBOL?	(10)	VIII.	A file contains a no. of records. Each record contain the following details: Rollno., studentname, semesterno., and
	(c)	Assume the following DATA DIVISION entries: 01 BILL			Branch. Write a COBOL pgm. to create separate file one for each semester and each file should be sorted on
		02 A PK 99 02 FILLER PK X (7)			the basis of roll number. (20
		Indicate the following statements in the PROCEDURE		-	
		DIVISION are correct or not. (i) MOVE SPACE TO FILLER		IX.	Describe the components and benefits of a computerised accounting system. (20
		(i) MOVE SPACE TO PILLER (ii) MOVE "AB" TO A.			OR (20
		(iii) MOVE 23 to A.		X .	What are the various reports in an accounting system?
		(iv) MOVE SPACES TO A.			Explain its uses. (20
		(v) MOVE ZEROS TO A.	(5)	· ·	
		OR		•	***

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