TH-4 COMPUTER APPLICATION

Full Marks: 80   Time : 3 Hours

Answer any FIVE Questions including Q No. 1& 2

Figures in the right hand margin indicates marks

1		Answer ALL the Questions :	2X10
	(a)	Computers work on the garbage-in, garbage-out concept. Comment.	
	(b)	What is a scanner?	
	(c)	What do you mean by Flash memory?	
	(d)	Why Escape sequence is used in 'C'?	
	(e)	Why switch is used in network?	
	(f)	Define System software and Application software.	
	(g)	What do you mean by Optical Character Recognition?	
	(h)	List various types of operators used in 'C'.	
	(i)	What is network topology?	
	(j)	What is a server?	
2.		Answer any SIX Questions:	
	(a)	Broadly classify the computers based on their speed, the amount of data they can hold and price.	5X6
	(b)	Differentiate data and information.	
	(c)	Define the following terms : i>Browser ii>Client Program iii>FTP	
	(d)	Write a Program in 'C' to find the sum of the series $1/2 + 2/3 + ... + n/n+1$	
	(e)	Represent $Y = \overline{A+B} + C.D + E.\overline{F}$ using logic gate.	
	(f)	Give a brief description about Office Automation.	
	(g)	Write a program in 'C' to calculate the GCD of two numbers.	

3.		Give the general process to convert a number from any base system into its decimal equivalent. Convert the following numbers into the decimal Describe the basic organisation of a computer with Block diagram.
		number system.
		    i> $(10110101)_2$
		    ii> $(5674)_8$
		    iii> $(A1E2)_{16}$
			10

4.		Explain the organisation of computer memory. Also describe the characteristics of the memory hierarchy chart.	10
5.		What is an Operating system? Describe various types of operating system.	10
6.		Explain the basic organisation of a computer with Block diagram.	10
7.		What is a flow chart? Draw a flow chart and write a program to determine the largest of three numbers.	10