A march 2

(b)

Con.1863-06.

(REVISED COURSE)

(3 Hours)

TV-8602 [Total Marks: 100

10

10

10

10

N.B. (1) Question No.1 is complusory.

> Solve any four questions from questions Nos. 2 to 7. (2)

Assume suitable data whenever necessary and justify it. (3)

Following Program is for 8086 processor. Give result for program after first pass and second (a) pass of assembler with relative address of each instuction.

SAMPLE	START	4000
	USING	*, BX
	MOV	BL, NUM1
un perfoudu	ADD	BL, NUM2
	MOV	RESULT,BL
NUM1	DC	10H
NUM2	DC	20H
RESULT	DS	?
	END	

The available space list of 1K-word memory has the following

at time t.

Hegion	Address	Size (word)
0		200
250		150
450		100
700		185
999		25

The following sequence of allocation reque n receive

Time 25 Size of block 135

to be allocated. Determine the available list after all these request have been serviced (i) Best-fit and rst fit allocation scheme. (ii)

Explain Macro and Database for 2-past Ma (a)

10 ollowing examples. Calculate relocatable address for Explain relocatable loader with reference 10 following programs. Consider all instructions as 1-byte instruction and program is stored from location

LOAD 1234 9000 ADD BRANCH STORE

0000H and it is loaded starti

Where R indicate rel

rogramming, multitasking, multiprocessor in context with operating system. 3 (a) Explain the term mult

n 2010.

e diagram for PCB. (b) Explain process

cess which perform specific task. Sequence for processes are each P,Q,R,. 10 Following are thr address in which instruction within process will execute and why process are Give Sequene equence. executed in

Process P:-

6005

	4000	Addition
	4001	Subtraction
	4002	Multiply
	4003	Division
	4004	Take input from keyboard
	4005	SORT
	4006	Change Sign
	4007	Calculate mean
Proce	ss Q :-	
	6000	Data transfer within register
	6001	Take complement
	6002	Take printout
	6003	Addition
	6004	Subtraction '

Multiply

	Process R:-	1.0
	8000 Multiply	
	8001 Find greater number	
1	8002 Store result on floppy disk	
	8003 Addition 8004 Division	6)
	(b) Explain different types of scheduler and preemptive non-preemptive scheduling algorithm.	1
5.	(a) Explain deadlock and condition for avoldance and prevention of deadlock.	1
	(b) "Size of page is too small of too large". What is the effect of this on system performance.	1
ò.	(a) Differentiate between EOS and ÜNix.	1
	(b) Explain file organisation and access methods.	1
	Write detailed notes on	2
	(a) System cars and drivers (b) Pare segmented memory	d)
	(c) Interprocess Communication.	