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## IV Semester B.C.A. 6 Degree Examination, August/September - 2024 OPERATING SYSTEM CONCEPTS

(Regular/Repeater)

		J FULLANO	Maximum Marks : 60
	-01	Hours	Maximum Marks: 60
Inst	ructio	1. Draw neat diagrams wherever necessary.	18 . splan Bald . produngs
		<ol> <li>Draw neat diagrams wherever necessary.</li> <li>All Sections are compulsory.</li> </ol>	19 Consider the following a
		2. All Sections are compulsor y.	nulliseconds
		Burst Time	Process
		Ę	14
		SECTION-A	29
I.	Ansv	wer any TEN of the following.	(10×2=20)
	1.	What is an operating system?	P.4
	2.	What is multi programming operating system?	29
	3. 500001 4.	Define schedulers. List its types.  The Ref of the Research of the Ref of the	
	5.	What is turnaround time and waiting time?	20. Explain the following
5)	6.	Define race condition.	a) Operation on File
(3)	7.	What is deadlock?	b) Attributes of File.
	8.	What is thrashing?	
	9.	What is logical address?	
	10.	What is Fragmentation?	
	11.	Define File. List its attributes.	
	12.	List the operations on File.	
		SECTION-B	
II.	Ans	wer any <b>FOUR</b> of the following.	(4×5=20)
	13.	With a neat diagram explain PCB.	
	14.	Explain the benefits of threads.	
	15.	Explain necessary conditions for deadlock.	
			[P.T.O.
			լւ.1.Ս.



Consider the following page reference string

Assume 3 frames, calculate number of page fault using FIFO and LRU page replacement technique.

17. Explain linked list method of free space management.

## SECTION-C

III. Answer any TWO of the following.

 $(2 \times 10 = 20)$ 

ATTER TOTAL OF A

- 18. Explain Batch operating system and time sharing operating system.
- Consider the following set of processes with the length of CPU burst time in milliseconds.

Process	Burst Time
P1	3
P2	A PROPERTY AND A CONTRACT PARTY.
P3	3
P4	4
P5	2 grisser intercogn of lum.

Draw Gantt chart illustrating the execution of these process using FCFS and round robi (qauntum time - 1msec) scheduling method.

20. Explain the following:

\* .

a)	Operation on File	Define race conducts	(5)

b) Attributes of File. 'Abolhabertal' (5)

What is logical address

 What is Free mentation?

 Time blue is stirk applied.

 The onorations is the

What is turnaround time and waiting time.

What is threstury

unt -offered to MTABA vertication.

I par percetta Preads.

SECTION-B