## 4<sup>TH</sup> SEM / CS&E /IT/ 2023(S)

## **TH-1 Operating System**

Full	Marks: 80	-285	Гime- 3 Hrs
		Answer any five Questions including Q No.1& 2	
		Figures in the right hand margin indicates marks	
1.	Answer <b>A</b>	JI questions	2 x 10
	a. Define PC		2 / 10
		ontext switching?	
		ternal fragmentation.	
		semaphore?	
		difference between program and process.	
		emand Paging.	
		you mean by circular wait.	
	_	e and directory.	
	i. What is S	•	
		you mean by Virtual Memory?	
101			_
2.		ny Six Questions	6 x 5
	a. Briefly ex	plain about contagious and non-contagious memory	
	managem		
		difference between spooling and buffering.	
		ocess and process state. Draw a suitable diagram to	
	· .	fferent states of a process.	
		Page Fault? How it can be handled.	
		ad lock. Explain Bankers algorithm for deadlock	
	preventio		
		ne functions of I/O traffic controller and I/O scheduler	-11
		ort notes (any two)	851
		tical section ce condition. cess synchronisation.	,
		ce condition.	
	c) Pro	ocess synchronisation.	
3	Discuss al	bout First Come First Serve (FCFS) and Shortest-Job-Fi	irst 10
20%-	y	Scheduling with suitable example.	
3203-24 5		fferent structures of operating system.	10
5		riefly the various File Access Methods.	10
6	-	riefly different phases of a compiler.	10
7	•	riefly about the different methods of allocating disk s	pace. 10