B. Sc. (IT) (Sem. III) Examination
March - 2022
Operating System : CS-13

Faculty Code : 003
Subject Code : 004301

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

Instructions : (1)   All questions carry equal marks.
                        (2)   Attempt any five of the following questions.

1	(a)	Explain types of operating system.	**14**
	(b)	Explain service of operating system.	
2	(a)	Explain structure of operating system.	**14**
	(b)	Explain process state and process control block.	
3	(a)	Explain multiple processor scheduling.	**14**
	(b)	Explain real time scheduling.	
4	(a)	Explain classical problem of synchronization.	**14**
	(b)	Explain deadlock characterizations.	
5	(a)	Explain deadlock avoidance and detection.	**14**
	(b)	Explain process scheduling in linux.	
6	(a)	Explain logical versus physical address space.	**14**
	(b)	Explain segmentation.	
7		Explain page replacement algorithms with example.	**14**
8	(a)	Explain file attributes.	**14**
	(b)	Explain file system implementation.	
9	(a)	Explain principles of I/O hardware.	**14**
	(b)	Explain principles of I/O software.	
10	(a)	Explain disk sheduling.	**14**
	(b)	Explain disk management.	