NATIONAL INSTITUTE OF TECHNOLOGY PATNA

Department of Computer Science and Engineering Mid-Semester Examination (July-Dec 2022)

Subject: Operating System (CS34111)

Course: B.Tech. Full Marks: 30 Duration: 2 Hrs

Answer all questions

No.	Questions	Marks	CO	BL
	(a) Explain the goal of OS from the user's point of view and the system's point of view.	3	1	2
1	(b) Differentiate between multiprogramming and multitasking.	3	1	4
	(c) What is Real-Time Operating System? What is the difference between Hard and Soft Real-Time OS?	. 4	1	1, 2
2	(a) Discuss various types of memory available in the computer system.	5	3	1
	(b) Justify the need for various types of memory.	5	3	2, 4
3	(a) Differentiate between program and process.	3	1	4
	(b) Explain process state transition with the help of a diagram.	7	1	2

