



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

	InSem Examination-I Winter 2023		
	Exam Seat No.:		
	Academic Year:2023-2024	Semester: I	
	Name of Programme: M.Tech.	Pattern: 2022	
	Name of Course: Linux in Embedded System	Course Code: ETC225104A	
	Max. Marks:30	Duration:1Hrs	

Instructions: Candidates should read carefully the instructions printed on the Question Paper

and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 2 page(s).
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome of the Question.

Question No. 1 Attempt following Question

- a) Explain the kernel model of Linux. (7) 1

OR

- b) Explain system calls related to Linux. (7) 1

- c) Explain the Semaphores, Mutex, IPC mechanism. (8) 1

OR

- d) Compare semaphore and Mutex. Explain need of semaphore in Linux programming (8) 1

Question No. 2 Attempt following Question

- a) Explain Linux file system. (7) 2

OR

- b) Explain the virtual file system. (7) 2

c) Explain memory allocation in Linux system.

(8) 2

OR

d) Write a short note on embedded file system.

(8) 2