

KIT's College of Engineering (Autonomous), Kolhapur
Department of Computer Science & Engineering

Course Name: - UNIX Operating System

Course Code: - UCSE0601

ISE 1 Component 1 – Assignment (A.Y. 2022-2023)

Instructions:

- a. Deadline to complete this ISE component is 5th March 2023 11.59 PM IST.
 - b. Draw suitable diagram wherever necessary.
 - c. Upload handwritten answers to the following Questions in a PDF file.
 - d. Rename the PDF file with your Roll Number.
Example – A10.pdf
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- Q1. Draw a neat and labeled diagram of UNIX Kernel architecture and explain it in detail. CO2**
- Q2. Explain the response of a process for the following scenarios with respect to the buffer: - CO2**
- a. Buffer is busy
 - b. Buffer is free
 - c. Block is not in hash queue
 - d. No free buffers in the system
 - e. Block is marked delayed write in free list.
- Q3. Contrast between in-core inode and disk inode. CO3**
- Q4. Write and explain the algorithm to convert pathname to inode. CO3**
- Q5. List the features of UNIX OS. CO1**

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