

## System Level Design - Second MID - April 2025

Name:

**CSE**

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When answering the questions below, make sure to show all of your work. Pay attention to the point values on each question. State your assumptions, and explain your answers thoroughly. Remember that an explanation is expected with every answer except the multiple choice and true/false questions when the answer is true. Use blank paper if you do not have enough room..  
Time: 09:00 to 12:00 | Total Marks: 15

1. What is process scheduling? 2
  
2. Define context switching. 3
  
3. What is demand paging? 5
  
4. How does the operating system handle memory fragmentation? 5
  
5. Name different file types in Unix. 2

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|---|---|
| 6. What is inode?   | 3 |
| 7. What is a file descriptor?                                 | 2 |
| 8. What is the default permission of a file created in Linux? | 3 |