

System Level Design - Apr 2025

Name:

CSC3320

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: 65 Hours | Total Marks: 30

Answer all the following

Marks: 10

- | | |
|--|---|
| 1. Define system software with examples? | 2 |
| 2. What is Terminal? | 2 |
| 3. What is a loader in system programming? | 2 |
| 4. What is a system call? | 2 |
| 5. What is a zombie process? | 2 |

Answer all the following

Marks: 20

- | | |
|--|---|
| 1. Differentiate between static and dynamic linking. | 5 |
| 2. What is the role of the linker in system programming? | 5 |

3. What are signals in Unix?

5

4. What happens when `fork()` is called twice in a process?

5