

### Assignment 1

|   | Assignment Question                                |
|---|--|
| 1 | Explain operating system and importance?           |
| 2 | Explain clustered systems                          |
| 3 | Explain assemblers, compiler, interpreter, linkers |
| 4 | Explain real time system                           |
| 5 | Discuss multiprocessing system                     |

### Assignment 2

|   | Assignment Question                             |
|---|---|
| 1 | Write a short note on operating system services |
| 2 | Explain system call concept                     |
| 3 | Define virtual machine                          |
| 4 | Discuss operating system structure              |
| 5 | Define system boot                              |

### Assignment 3

|   | Assignment Question         |
|---|-----------------------------|
| 1 | Discuss process scheduling  |
| 2 | Define threading issues     |
| 3 | Explain thread scheduling   |
| 4 | Discuss Peterson's solution |
| 5 | Explain semaphores          |

### Assignment 4

|   | Assignment Question                       |
|---|---|
| 1 | explain file concept                      |
| 2 | Define RAID                               |
| 3 | Define disk management                    |
| 4 | Explain deadlock detection and recovery   |
| 5 | Explain deadlock prevention and avoidance |

### Assignment 5

|   | Assignment Question                                  |
|---|--|
| 1 | Explain memory management without swapping or paging |
| 2 | Explain page replacement algorithms                  |
| 3 | Explain application I/O interface                    |
| 4 | Define system and network threats                    |
| 5 | Explain access matrix                                |