**OPERATING SYSTEMS QUESTION BANK**

**UNIT-I**

1. What is an Operating? Discuss operating system structures.
2. Explain briefly system calls and their types
3. Explain briefly about the services and functions provided by the operating system.
4. Define the essential properties of the following types of operating system:

(i) Batch

(ii) Real Time

(iii) Time sharing

(iv) Multiprogramming

1. What is client/server computing?

**UNIT-II**

1. write a short note on
2. Operations on Processes
3. Inter Process Communication
4. Communication in Client Server Systems
5. What is single threaded and multithreaded process? What are the benefits of multithreaded?

programming? Explain Thread Models

1. What is the difference between preemptive and non-preemptive scheduling?
2. What are the different states of a process? Draw the state transition diagram of a process.
3. How the process is represented using Process control block?
4. Discuss the different CPU scheduling algorithms with a suitable example of each scheduling.7.
5. Explain the dining philosopher’s problem and solution for it.

**UNIT-III**

1. a) Explain Memory Management Unit in detail with neat diagram.

b) Explain about physical and logical addressee and base and limit registers.

1. a) What is swapping? Explain in detail.
2. Explain types of fragmentations with neat diagram.
3. (a) what is contiguios memory allocation? Explain its types in detail.

(b) Discuss briefly about paging and segmentation