**Portions for CT1**

1. Unit – I
2. Unit – II ( Upto InterProcess Communication**)**

**Question paper Pattern (Total marks : 25 )**

**Part – B : (3 \* 4 : 12 marks) [ out of 4 questions, 3 questions must be answered]**

**Part- C : (13 \*1 :13 marks) [ 1 question to be answered , either or type ]**

.

UNIT I - INTRODUCTION

**Computer System Organization-Operating System Structure and Operations-System Calls, System Programs, OS Generation and System Boot.**

UNIT II-PROCESS MANAGEMENT

**Processes-Process Concept, Process Scheduling, Operations on Processes, Interprocess Communication**; Threads- Overview, Multicore Programming, Multithreading Models;Process Synchronization-Critical Section Problem,MutexLocks,Semophores,Monitors; CPU Scheduling

Chapters for study from Abraham silbershatz ( 9th edition )

* **Unit1: Chapter 1** (1.1 , 1.2, 1.4, 1.5) **and chapter 2** (2.1, 2.3, 2.4, 2.5, 2.7,2.9, 2.10 )
* **Unit 2 : Chapter 3** ( 3.1, 3.2 , 3.3 , 3.4 )