

DEPARTMENT OF INFORMATION TECHNOLOGY : : VRSEC
20IT3305 OPERATING SYSTEMS
SESSIONAL I QUESTION BANK
A.Y 2021-2022
ESSAY TYPE QUESTIONS

1. Explain Interprocess Communication in detail.
2. Discuss Multithreading models with neat diagrams.
3. Problems on CPU scheduling algorithms – FCFS, SJF, SRTF, Priority preemptive and non preemptive, Round Robin (Calculation of Average Waiting Time and Average Turnaround Time)
4. Critical Section problem – two process software solution
5. Write short notes on
 - i) PCB
 - ii) Operations on processes
6. Draw and explain the following
 - i) Process state diagram
 - ii) Queueing diagram
7. Dining Philosophers problem solution

SHORT QUESTIONS

1. Define operating system.
2. What is system call?
3. What is starvation and give the solution for starvation?
4. Define the following terms i) Waiting time ii) Throughput iii) Turnaround time
5. Specify the requirements of critical section problem solution.
6. What is race condition?
7. Define dispatch latency.
8. What are the benefits of multithreaded programming?
9. What are the different modes of operating system?
10. Differentiate between preemptive and non preemptive scheduling.