

Quiz 2
Operating Systems and Networks
IIIT Hyderabad
Time: 30 minutes; Max. Marks: 24

Note: Give a brief and correct answer. **Mention your name and roll number on the answer sheet. Answer the question after writing the question in the answer sheet.**

1. What do you understand by the term “long term scheduler”?
2. What are the strengths and weaknesses of the two models of inter-process communication?
3. Consider a multiprocessor system and a multi threaded program using many-to-many threading model. Let the number of user-level threads in the program be more than the number of processors in the system. Discuss the performance implications of the following: “The number of kernel threads allocated to the program is less than the number of processors”.
4. Do you agree that “multithreading framework improves both Concurrency and Parallelism on multicore system?” Justify your answer.
5. Suppose a CPU scheduling algorithm favors those programs that have used little processor time in the recent past. Explain why this algorithm favors I/O-bound processes and yet does not permanently deny processor time to CPU-bound processes ?
6. What is the purpose of thread pools?