

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. Explain merits and demerits of fixed size and variable size messages. communication by considering system designer level and programmer level.
2. 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: “The number of kernel threads allocated to the program is greater than the number of processors but less than the number of user-level threads”
3. Elaborate the words “Concurrency” and “Parallelism” with examples.
4. Justify the requirement of medium-term scheduler.
5. Why is the separation of mechanism and policy is a desired principle?
6. Provide two programming examples in which multithreading does not provide better performance than a single-threaded execution.