

Quiz 4
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 FIRST 10 WORDS OF THE QUESTION ALONG WITH THE QUESTION NUMBER in the answer sheet.**

1. What is the soft-real time system ? Explain the implications if operating system does not support soft-real time functionality.[6]
2. What is preemptive and non-preemptive scheduling ? Which is easy to implement for OS designer ? If one of the scheme is difficult to implement, explain the corresponding difficulties.[6]
3. What do you mean when you say that “the process is starving”. What kind of mechanism you should implement in Operating System in order to detect the starving processes?[6]
4. Explain the motivation for multi-programming and time sharing. What are the additional issues that are to be tackled by operating system to implement the time-sharing as compared to multi-programming ?[6]