

**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. Explain how FCFS CPU scheduler penalizes I/O bound processes. [4]
2. Consider a variation of round robin we will call progressive round robin. In progressive round-robin, each process has its own time quantum. This starts out at 50ms, and increases by 50 ms each time it goes through the round-robin queue. Give the advantages and disadvantages of this variant over ordinary-round robin with respect to the users of batch jobs and interactive jobs.[10]
3. Explain the application of priority inheritance protocol?[6]
4. Identify whether the following statement is TRUE or FALSE. If the statement is FALSE, correct it and justify the corrected sentence. If the statement is TRUE, justify it. Restrict the justification to a few sentences. “As compared to CPU-bound process, OS gives higher priority for I/O bound process.” [4]