Introduction of Integrated Circuit Design 2022 Final Exam

Scope of the Exam

- Lec. 3 (Partition)
 - Kernighan-Lin (KL) Algorithm
 - Fiduccia-Mattheyses (FM) Algorithm
- Lec. 4 (Floorplan)
 - Polish Expression / Normalized Polish Expression
 - Sequence Pair
- Lec. 5 (Routing)
 - Maze Routing
 - Channel Routing

- Speech Content (M31, NTU, TSMC)
 - IR Drop
 - high-frequency high-speed circuit
 - dummy metal
 - electromigration, ESD, latch-up
 - STA, FTA, SSTA, false path, setup time, hold time
 - 3DIC, CoWoS, InFO, TSV
 - PVT
 - Euler Path in standard cells
 - Al-driven EDA
 - RC extraction, RCLK

Notice

 Some relevant problems will be selected from the speech content, including providing explanations, descriptions of their nature, and comparisons.