- [Physical database design]: List activities
  - [Design file organisations]
  - [Monitor and tune the operational systems]

- [Design file organisations]: Explain*

- [File organisations]: List types
  - [Heap files]: Explain? Advantages? Disadvantages*
  - [Sequential (ordered) files]: Explain? Advantages? Disadvantages
  - [Hash files]: Explain? Disadvantages (collisions)** [NA]? Advantages
  - [B-tree]: Explain** [NA]
  - [Clusters]: Explain? Advantages**

- [Indexes]: Explain**? Not for? Advantages** [NA]? Disadvantages**? [NA]

- [Index types]: List
  - [Primary index]: Explain**? Advantages**? Disadvantages*
  - [Secondary index]: Explain*? For**? Advantage**? Disadvantage [NA]**
  - [B-tree index]: Explain** [NA]? Advantages**
  - [Clustering index]: Explain [NA]

- [Monitor and tune the operational system]: Explain**

- [Query optimisation and processing]: Explain**

- [Optimisation techniques for queries]: Explain**? Types
  - [Rule-based]: Explain**
  - [Cost-based]: Explain**
- [Rules for the best optimisation of queries]: Explain

- [DBMS Joins]: Explain? Types
  - [Nested loop join]: Explain? Disadvantages? Advantages
  - [Sort-merge join]: Explain? Advantages
  - [Hash join]: Explain? Advantages

- [Query optimiser]: Components
  - [Query transformer]: Explain
  - [Estimator]: Explain
  - [Plan generator]: Explain

Wednesday: 13 Flash Cards * 2 min each = 26 Min MAX