

### Repeated Questions in MCS-212

Question / Topic	Asked In
Pigeonhole Principle	June 2022, Dec 2022, Dec 2023, June 2024
Inclusion-Exclusion Principle	June 2023, Dec 2023, June 2024
Power Set ( $P(A)$ ) Concept or Proof	Dec 2022, Dec 2023
Turing Machine / Acceptable vs Decidable Language	Dec 2022, Dec 2023, June 2024
Finite Automata / State Table / Regular Expression	June 2022, Dec 2022, June 2023, June 2024
Truth Table / Tautology Verification	June 2023, Dec 2023, June 2024
Propositional Logic vs Predicate Logic / De Morgan's Law	Dec 2022, June 2023, June 2024
Graph Theory Topics (Eulerian, Hamiltonian, Bipartite, Isomorphic)	All Papers
Mathematical Induction (on summation or recurrence)	June 2022, Dec 2022, Dec 2023, June 2024
Handshaking Theorem	Dec 2022, Dec 2023
Kleene Closure	Dec 2022, June 2023, Dec 2023
Boolean Expressions and Logic Circuits	June 2022, June 2023, June 2024
Set Theory and Venn Diagram	June 2022, Dec 2022
Regular Expression Definitions and Constructions	June 2022, Dec 2022, June 2023
Recurrence Relations (Derivation / Iteration)	Dec 2022, Dec 2023, June 2024
Permutations and Combinations (Committee/Couples/Selection)	June 2022, Dec 2022, June 2023, Dec 2023