Weekly planner Discrete Structures

Text Book

Kenneth H. Rosen, Discrete Mathematics and Its Applications, seventh Edition., McGraw-Hill.

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| Week # | Lecture | Topics with suggested practice questions |
| 1 | 1 | 1.1 Propositional Logic (Q1 - 15 , Q24 - 28 (any 2), Q16 – 18, Q30, Q32 - 37 (any 2), Q40 or 41,Q42) |
| 2 | 1.2 Applications of Propositional Logic (Q 1-10)  1.3 Propositional Equivalences : Logical Equivalences, |
| 2 | 3 | 1.3 Propositional Equivalences : Using De Morgan’s Laws Constructing New Logical Equivalences, Propositional Satisfiability  (Q11,12,Q17-33,Q34,35,Q58-62(ANY OF TWO OR THREE PARTS)) |
| 4 | 1.4 Predicates and Quantifiers: Predicates, Quantifiers, Quantifiers with Restricted Domains, |
| 3 | 5 | 1.4 Logical Equivalences Involving Quantifiers, Negating Quantified Expressions, Translating from English into Logical Expressions, Using Quantifiers in System Specifications  Q1-10(ANY TWO),Q11-20(ANY TWO),Q21-29(ANY TWO),Q30-34(ANY TWO),Q35-42,Q43-50(ANY TWO) |
| 6 | 1.5 Nested Quantifiers, Translating Mathematical Statements into Statements  Involving Nested Quantifiers, Translating from Nested Quantifiers into English |
| 4 | 7 | 1.5 Translating English Sentences into Logical Expressions, Negating Nested Quantifiers  Q. 6-8, 11, 16-18, 24-32 (any 2 questions),33-38 (any 2 questions ),39 0r 40,41-47 ( any two questions ) |
| 8 | 1.6 Rules of Inference, Valid Arguments in Propositional Logic, Rules of Inference for Propositional Logic, Using Rules of Inference to Build Arguments |
| 5 | 9 | 1.6 Fallacies, Rules of Inference for Quantified Statements, Combining Rules of Inference for Propositions and Quantified Statements. (1-10, 12, 14, 16, 19, 21, 24, 28, 33,) |
| 10 | 2.1, 2.2 and 2.3 |

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