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#### B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

#### Third Semester

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MA 3354 - DISCRETE MATHEMATICS

(Common to Computer and Communication Engineering/Artificial Intelligence and Data Science/Computer Science and Business Systems/Information Technology)

(Regulations 2021)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

- Prove that (p→(p∨q)) is a tautology.
- 2. Symbolize the statement "All men are mortal".
- Among 200 people, how many of them were born on the same month?
- Find the first four terms of the sequence defined by the recurrence relations and initial condition α<sub>n</sub> = α<sup>2</sup><sub>n-1</sub>, α<sub>1</sub> = 2.
- Define the pseudograph with an example.
- 6. Draw the graph of the adjacency matrix  $\begin{bmatrix} 0 & 1 & 1 & 1 \\ 1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 1 \\ 1 & 0 & 1 & 0 \end{bmatrix}.$
- Define monoid.
- Define the homomorphism of groups.
- Draw Hasse diagram for ≤ relation on {0, 2, 5, 10, 11, 15}.
- Define lattice.

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