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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)

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1. Prove that $(p \rightarrow (p \vee q))$ is a tautology.
2. Symbolize the statement "All men are mortal".
3. Among 200 people, how many of them were born on the same month?
4. Find the first four terms of the sequence defined by the recurrence relations and initial condition $a_n = a_{n-1}^2$, $a_1 = 2$.
5. Define the pseudograph with an example.
6. Draw the graph of the adjacency matrix $\begin{bmatrix} 0 & 1 & 1 & 1 \\ 1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 1 \\ 1 & 0 & 1 & 0 \end{bmatrix}$.
7. Define monoid.
8. Define the homomorphism of groups.
9. Draw Hasse diagram for $\leq$ relation on $\{0, 2, 5, 10, 11, 15\}$.
10. Define lattice.

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Didier Musso

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