

Question Paper Code : 70141

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)

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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.

Nov Dec Mathematics Grd10 2013

**Saundra M. Tomlinson-Clarke, Darren
L. Clarke**



Nov Dec Mathematics Grd10 2013:

Nov Dec Mathematics Grd10 2013 Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Nov Dec Mathematics Grd10 2013**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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