



**Department of Training and Placement**

**Third year training pattern**

**No. of training hours: 30 Hrs**

S.No	Topics
<b>NUMBERS</b>	
<b>1</b>	Remainder theorem
	Binary Number System
	Decimal Number System
	Factorials
	Factors
	Powers & Indices
	Divisibility Rules
	Classification of Numbers
	Real Numbers
	Complex numbers
	Rational Numbers
	Irrational Numbers
	Whole numbers
	Natural numbers
	Integers
	Even Numbers
	Odd numbers
	Prime Numbers
	Composite numbers
	Co-Prime numbers
	Twin prime
	Prime Factorization
	Least Common Multiple (LCM)
	Highest Common Factor (HCF)
LCM by Prime Factorization Method	
HCF by Prime Factorization Method	
Mathematical Operations	
Numerical Operation	

<b>PROBLEMS ON TRAIN</b>	
<b>2</b>	Problems based on Time, Speed and Distance
<b>TIME AND WORK</b>	
<b>3</b>	Problems based on Age
	Problems based on Boats and Streams
<b>PROFIT AND LOSS</b>	
<b>4</b>	Profit and Loss Basic Concepts
	Profit(P)
	Loss(L)
	Cost Price (CP)
	Selling Price (SP)
	Marked Price Formula (MP)
	Profit and Loss Formulas
	Profit and Loss Examples
	Profit and Loss Tricks
	Marked Price
	List Price
Successive Discounts	
<b>PERCENTAGE</b>	
<b>5</b>	Percentages in Real Life
	Percentage Change
<b>PROBABILITY</b>	
<b>6</b>	Coin Toss Probability
	Tossing a Coin
	Tossing Two Coins
	Dice Roll Probability
	Rolling One Dice
	Rolling Two Dice
	Probability of Drawing Cards
	Probability Theorems
	Bayes' Theorem on Conditional Probability
	Law of Total Probability
<b>PERMUTATION AND COMBINATION</b>	
<b>7</b>	Theorem of Counting
	Permutation and Combination

<b>DATA INTERPRETATION</b>	
<b>8</b>	Market Share
<b>9</b>	Data Sufficiency
<b>BLOOD RELATIONS</b>	
<b>10</b>	Ranking / Ordering
<b>11</b>	Syllogism
<b>12</b>	Venn Diagrams
<b>PUZZLES</b>	
<b>13</b>	Lateral Thinking Puzzles (Riddle)
<b>NUMBER SERIES</b>	
<b>14</b>	Number Sequence
	Series of Numbers
<b>15</b>	Coding and Decoding
<b>16</b>	Averages
<b>17</b>	Inequality

Domain based training: 30 Hrs