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**MODEL PAPER**

**D.COM PART—I**

**BUSINESS MATHEMETICS AND STATISTICS.**

**(SUBJECTIVE)**

**Time: 2:00 Hours**

**Marks: 40**

**Q.1 Write short answers to any Twelve (12) questions (4 from each part).**

**(PART-A)**

1. Describe four important kinds of number system.
2. Define Arabian number system.
3. Define Principal.
4. What will be the commission on sale of Rs.35000 @ 3%?
5. 12 is what percent of 48.
6. Find the sum of (111) + (110).

**(PART-B)**

1. How the percentage loss is calculated.
2. How the rate of commission can be calculated.
3. Define census inquiry.
4. Describe four essentials of investigation through questionnaires.
5. Describe four characteristics of statistics
6. Write two points of difference between classification and tabulation.

**(PART-C)**

1. If purchase price is Rs. 1200, profit is 20% of sale price. Find out the sale price.
2. What is pie chart?
3. Write down the formula of arithmetic mean for grouped data.
4. What is the difference between Histogram & Histogram.
5. Describe the relationship between mean, median & mode.
6. Define Harmonic mean & Geometric mean.



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**SECTION -II**

**Note: Write detailed answer to any Two (02) questions.**

1. A. Convert (756432) to its equivalent number in base 16 or hexadecimal number system.  
b. Find the value of (945) + (1111) by changing in binary system.

2. Mr. Aslam purchased three old bikes for Rs.500, 000. He sold these bikes for Rs. 175, 000, 13500 & Rs. 150,000. Find the total profit or loss and its percentage.

b. An agent purchased merchandise worth Rs, 198000 for his principal and received commission Rs, 10890. What percent commission did agent received.

3. a) The marks obtained by 10 students in Commerce and Maths are given below:

Commerce	80	75	68	50	40	70	48	90	85	65
Maths	60	55	45	35	30	50	45	69	68	55

Required: prepare a two way table by taking class intervals.

b) Represent the following data by means of (i) Rectangular (ii) Squares (iii) Circles

	Factory	Production
A		3600
B		1600
C		900

4. a) Find out median

$$X = 15, 35, 55, 45, 25, 50$$

$$Y = 10, 15, 20, 15, 25, 30$$

b) Calculate Harmonic Mean and Geometric Mean from the data given below:

Age	0-5	5-10	10-15	15-20	20-25	25-30	30-35
F	17	30	35	49	45	33	26

-----BEST OF LUCK-----

