



**SURESH  
GYAN VIHAR  
UNIVERSITY**  
Accredited by NAAC with 'A' Grade

**INTERNAL ASSIGNMENT - 1**


Course	BBA	<b>Business Mathematics</b>
Semester	1	
Total Marks:	15	

**Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)**

- A. Find S.I. on Rs 75000 at  $8\frac{1}{3}\%$  per annum for 2.5 years.
- B. Mr. Prabhu invested 775,375/- to purchase equity shares of a company at market price of 7250/- through a brokerage firm, charging 0.5% brokerage. The face value of a share is 710-. How many shares did Mr. Prabhu purchased?
- C. Let  $A_1 = (5,6,7,8)$ ;  $A_2 = (4,8,9)$  and R is the relation  $X < Y$ , then; a) Write R as a set of ordered pair  
b) plot R on the diagram of  $A \times B$  3 ) Find R inverse.

**Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)**

- A. Function
- B. Ratio
- C. Definition, Meaning and types of Matrices
- D. Sales Tax
- E. Domain of a function given the Equation

 <b>SURESH GYAN VIHAR UNIVERSITY</b> <small>Accredited by NAAC with 'A' Grade</small>		<b>INTERNAL ASSIGNMENT - 2</b>
<b>Course</b>	<b>BBA</b>	<b>Business Mathematics</b>
<b>Semester</b>	<b>1</b>	
<b>Total Marks:</b>	<b>15</b>	

**Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)**

- A.** Suppose the price  $p$  and quantity of  $q$  are related by the equation  $q=40-6p-p^2$ , Find a) elasticity of demand  $E_q$  at  $p=2$  and b) marginal revenue  $MR$  at  $p=4$ .
- B.** Murali holds 300 shares of Rs. 20 each. The company issues shares in the ratio 3 : 5. The company declared a dividend of 15% on the enlarged capital. What is the average rate of return on his investment?
- C.** At what price should electric heater costing Rs 48250 be sold through an agent so that after paying him a commission of 3.5% on sales, a net gain of 20% be made

**Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)**

- A.** Variation
- B.** Graphs of a Function
- C.** Successive Discount
- D.** Determinants
- E.** Shareholder Rights