Q. Write answers for questions below. (20 marks each – Word limit – 500)

A. Salaries of Rajesh and Sunil are in the ratio of 2 :3. If the salary of each one is increased by Rs.4000 the new ratio becomes 40 : 57. What is Sunil's present salary?

B. 25 horses eat 5 bags of corn in 12 days, how many bags of corn will 10 horses eat in 18 days?

C. Explain Dividend Policy and Share prices in details.

D. A tradesman sold an article at a loss of 20%. if the selling price has been increased by Rs100, there would have been a gain of 5%.what was the cost price of the article?

E. The price of the jewel, passing through three hands, rises on the whole by 65%. if the first and the second sellers 20%and25% profit respectively find the percentage profit earned by the third seller.

Q. Write answers for questions below. (20 marks each – Word limit – 500)

A. A man bought a horse and a car rage for Rs 3000.he sold the horse at a gain of 20% and the carriage at a loss of 10%, thereby gaining 2% on the whole. Find the cost of the horse.

B. Explain Vertical Line test and Horizontal line test in details.

C. Which of the six matrices from the previous problems have inverses?

D. When a producer allows 36% commission on retail price of his product, he earns a profit of 8.8%. What would be his profit % if the commission is reduced by 24%?

E. David invested certain amount in three different schemes A, B and C with the rate of interest 10% p.a., 12% p.a. and 15% p.a. respectively. If the total interest accrued in one year was Rs. 3200 and the amount invested in Scheme C was 150% of the amount invested in Scheme A and 240% of the amount invested in Scheme B, what was the amount invested in Scheme B?