



September 04, 2001

**QUANTITATIVE METHODS**  
**FE-1 Paper 2 & Module 'A', SM '6A' Paper A2**

**(MARKS 100)**  
**(3 hours)**

Q.1(a) A factory produces an average of one defective unit after 10 good units. The cost of producing one unit is Rs.12. The defective unit also costs Rs.12 but is sold as scrap for Rs.2. Determine the selling price of the good units if the manufacturer wants to earn a profit of 20% of total sales. **(03)**

(b) A company sells its products at 25% above cost. Due to a minor defect in a batch it has to offer discount of Rs.25 per unit. The gross profit percentage after the discount is 10% of discounted sales price. Find the cost of the product. **(02)**

(c) If  $x = 4.762 \times 10^{-7}$   
 Determine  $\log x$  **(02)**

(d) A transport firm is planning to purchase new buses. The budget allocated for this purpose is Rs.50 million. Two types of buses are to be purchased, one costing Rs.300,000 each and the other Rs.500,000 each. If  $x$  equals the number of type 1 buses and  $y$  the number of type 2

- (i) Determine the linear constraint which states that the total amount spent on the purchase of buses is Rs.50 million.
- (ii) Express the objective function (average bus mileage) as dependent variable.
- (iii) Express the constraints of type 1 and 2 buses and  $y$  mileage.

(e) A company invests a sum of Rs.10,000 in its first year of operation. It is estimated that the profit will increase by Rs.2,000 each year. Find the total profit of first 10 years using the method of arithmetical progression. **(05)**

Q.2(a) A person starts saving by depositing Rs.12,000 each year, starting from the end of the first year. He continues to do so until he accumulates Rs.1,00,000 at the time of retirement. If the rate of interest is 10% p.a., find the number of years in which he can accumulate the required amount. **(05)**

(b) A person has borrowed Rs.100,000 to buy a machine. The loan is for 10 years at an annual interest rate of 12 percent compounded quarterly. What is the amount of quarterly payments which he must make to pay back the loan? How much interest he would pay? **(05)**

(c) The nominal interest rate on an investment is 12 percent per year. Determine the effective annual interest rate if interest is compounded quarterly. **(05)**

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**JS Bruner**



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