Name:	Registration#
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Long Questions:

Question 01 [Marks 10]

[CLO-2]

Pakistan International Airways has recently conducted a survey on its services and revenues. The surveys show that there was constant revenue of \$ 1,000,000 for the first ten years since 2001 and it reduced with constant rate of \$ 100,000 every year for next 10 years (i.e. 2021). PIA wants to calculate what cumulative sum would be equivalent to these revenues at the end of 2021 if the budget had an interest rate of 9.5% compounded annually. Draw cash flow for this scenario.

Question 02 [Marks 15]

[CLO-2]

Microsoft lends \$10,000,000 for small projects in rural areas of India. The loan has to be refunded at 8.5% interest rate compounded annually. Repayment should be made in such a way that an amount A must be paid for the first 8 years, amount 3A for next 5 years and amount 5A for remaining years, keeping the interest rate 8.5%. Total time period for which the loan is allotted is 20 years. Find the value of A and draw cash flow diagram.

Question 03 [Marks 10]

[CLO-3]

Evaluate the **range of profitable demand** for a new project by **EWALL Pvt. Ltd**. The variable cost (c_v) per unit item of particular electronic component is \$850, the intercept on price (a) is 4500 and negative slope (b) is 80 and the fixed costs (C_F) sums up to \$8,500 per month.

Ouestion 04 [Marks 15]

[CLO-3]

Nike is constructing a mall near industrial estate. The initial investment includes land costs \$500,000, working capital \$650,000, building costs \$550,000 and other materials required costs \$250,000. It is expected that the sales of the mall will reach up to \$600,000 per year for 12 years at which time the land can be sold for \$500,000, the building for \$250,000, the materials for \$60,000 and all the working capital will be recovered (Hint: Salvage values). The annual expenses for labor and other items will sum up to \$435,000 per year. If the company requires an MARR of 9.5% on return, determine if it should invest in this mall? Use AW method to support your argument.

Good Luck