



IQRA NATIONAL UNIVERSITY, PESHAWAR

---

DEPARTMENT OF CIVIL ENGINEERING

Instructor: Dr Engr Zeeshan ahad

Total Marks: 20

### ASSIGNMENT

**Problem 1:** A construction company will replace an excavator after 5 years. A new one costs \$250,000. How much is the end-of-year annual uniform payment the company has to put into a bank in order to save enough money in five years' time for purchasing the equipment if the bank is offering an interest rate of 4% per annum?

**Problem 2:** A construction material company makes and sells window panels. The selling price per panel is \$900. The variable cost for making the window panels is \$500 per unit. The fixed cost is \$8,000,000. Find the BEP (break-even point)?