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QUESTION

1. A company is considering a new investment project. The project has a 5-year life and is expected to generate cash flows of \$100,000 per year. The initial investment is \$500,000. The company's cost of capital is 10%. Calculate the NPV of the project.

ANSWER

The NPV of the project is calculated as follows:

NPV = $\sum_{t=0}^n \frac{CF_t}{(1+r)^t} - \text{Initial Investment}$

Where:

- CF_t = Cash flow in year t
- r = Cost of capital (10%)
- n = Number of years (5)

NPV = $\frac{100,000}{(1+0.10)^1} + \frac{100,000}{(1+0.10)^2} + \frac{100,000}{(1+0.10)^3} + \frac{100,000}{(1+0.10)^4} + \frac{100,000}{(1+0.10)^5} - 500,000$

NPV = $90,909 + 82,645 + 75,131 + 68,065 + 61,781 - 500,000$

NPV = $378,531 - 500,000$

NPV = $-121,469$



Table 1: Summary of Data

Year	Q1	Q2	Q3	Q4
2010	1.2	1.5	1.8	2.1
2011	1.3	1.6	1.9	2.2
2012	1.4	1.7	2.0	2.3
2013	1.5	1.8	2.1	2.4
2014	1.6	1.9	2.2	2.5
2015	1.7	2.0	2.3	2.6
2016	1.8	2.1	2.4	2.7
2017	1.9	2.2	2.5	2.8
2018	2.0	2.3	2.6	2.9
2019	2.1	2.4	2.7	3.0
2020	2.2	2.5	2.8	3.1
2021	2.3	2.6	2.9	3.2
2022	2.4	2.7	3.0	3.3
2023	2.5	2.8	3.1	3.4
2024	2.6	2.9	3.2	3.5
2025	2.7	3.0	3.3	3.6
2026	2.8	3.1	3.4	3.7
2027	2.9	3.2	3.5	3.8
2028	3.0	3.3	3.6	3.9
2029	3.1	3.4	3.7	4.0
2030	3.2	3.5	3.8	4.1



Diagram illustrating the structural frame of a building, showing columns and beams.

Figure 1: Structural frame of a building.









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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities related to the business. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and tools used to collect and analyze data, ensuring that the information is reliable and up-to-date.

3. The third part of the document details the process of identifying trends and patterns in the data, which is crucial for making informed decisions and forecasting future performance. It also discusses the importance of regular communication and collaboration between different departments to ensure that everyone is on the same page.

4. The final part of the document provides a summary of the key findings and recommendations, highlighting the areas where further improvement is needed and the steps that should be taken to address these issues.







