### Valuation of shares Dividend Discount Model

## Formulae to Use:

1. Growth Rate:

Growth Rate = 
$$ROE \times (1 - Payout Ratio)$$

2. Value without Growth Opportunities:

Value without Growth = 
$$\frac{EPS}{Required\ Return}$$

3. Value of Growth Opportunities:

4. Value of the Share (Total):

### Problem 1

You are tasked with evaluating the valuation of "GreenTech Industries Ltd.", a company in the renewable energy sector. Use the data provided below to compute the following:

- 1. Growth Rate
- 2. Value of the Share without Growth Opportunities
- 3. Value of the Growth Opportunities
- 4. Value of the Share (Total)

## Data for GreenTech Industries Ltd.:

The company's Earnings Per Share (EPS) is ₹2.50, the Payout Ratio is 0.50, the Return on Equity (ROE) is 0.12, and the Required Return is 0.09.

# Problem 2:

You are tasked with evaluating the valuation of "**TechEdge Solutions Ltd.**", a leading software company. Use the data provided below to compute the following:

- 1. Growth Rate
- 2. Value of the Share without Growth Opportunities
- 3. Value of the Growth Opportunities
- 4. Value of the Share (Total)

## **Data for TechEdge Solutions Ltd.:**

The company has **Earnings Per Share (EPS)** of ₹3.00 and pays a dividend of ₹1.50 per share. The **Return on Equity (ROE)** is 0.10, and the **Required Return** is 0.08.

#### Problem 3:

You are tasked with evaluating the valuation of **"EcoHomes Ltd."**, a sustainable housing company. Use the data provided below to compute the following:

- 1. Growth Rate
- 2. Value of the Share without Growth Opportunities
- 3. Value of the Growth Opportunities
- 4. Value of the Share (Total)

## **Data for EcoHomes Ltd.:**

The company has **Profit After Tax** of ₹50 laksh and **No. of Equity Shaes 1,25,000**. Shareholders funds, ₹ 3,12,50,000 The company's **Payout Ratio** is 0.60, and the **Required Return** is 0.12.

## Problem 4

You are tasked with evaluating the valuation of "FutureSecure Finance Ltd.", a leading financial services firm. Use the data provided below to compute the following:

- 1. Growth Rate
- 2. Value of the Share without Growth Opportunities
- 3. Value of the Growth Opportunities
- 4. Value of the Share (Total)

# **Data for FutureSecure Finance Ltd.:**

The company's Earnings Per Share (EPS) is ₹4.00, the Payout Ratio is 0.55, and the Return on Equity (ROE) is 0.15. Use the Required Return calculated through CAPM, where the Risk-Free Rate is 0.04, the Beta is 1.2, and the Market Return is 0.10.