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Assignment1

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variable	symbol	formula	value
Total investment	T	-	₹22500
cost of each share	СР	-	₹50
Discount	d	-	10%
Market Price	MP	CP - d	?
No.of shares	n	$\frac{T}{MP}$?
Dividend per share	d_1	-	12%
Total dividend	D	$d_1 \times n$?
Rate of return	r	$\frac{D}{T}$?

'? ' \Longrightarrow To be calculated ' - ' \Longrightarrow Primary variables

Given

Total investment(T) = ₹22,500. cost of each share (CP) = ₹50Discount on each share (d) = 10%

$$\implies d = \frac{10}{100} \times 50$$

$$\implies d = 5$$

∴ discount = ₹5 on each share

... The Market price of each share (MP)

$$MP = CP - d$$

$$\implies MP = 50 - 5$$

∴ Market Price (MP) = ₹45.

1) Total number of shares purchased (n)

$$n = \frac{CP}{MP}$$

$$\implies n = \frac{22500}{45}$$

$$\implies n = 500$$

:On total 500 shares were purchased.

2) Given

Dividend paid by the company (D) = 12%

Dividend on each share (d_1)

$$d_1 = 12\% \text{ of } CP$$

$$\implies d_1 = \frac{12}{100} \times 50$$

$$\implies d_1 = 6.$$

∴ Dividend on each share $(d_1) = ₹6$.

Total dividend(
$$D$$
) = $d_1 \times n$
 $\implies D = 6 \times 500$
 $\implies D = 3000$.

∴ Total dividend paid by the company (D) = ₹3000.

3) Rate of return he gets on investment

$$(r) = \frac{D}{T} \times 100$$

$$\implies r = \frac{3000}{22500} \times 100$$

$$\implies r = 13.33\%$$

$$\implies r \approx 13\%$$

 \therefore He gets 13% return on his investment.