HW - Chapter 9 - Dividend Policy - Q8

Price per share according to Gordon's Model is calculated as follows:

Particulars	Amount in Rs.
Net Profit	50 lakhs
Less: Preference dividend	15 lakhs
Earnings for equity shareholders	35 lakhs
Earnings per share	35 lakhs/5 lakhs = Rs. 7.00

Price per share according to Gordon's Model is calculated as follows:

P0 = D1 / (Ke - g) where g = br

Here, E1 = 7, Ke = 16%

(i) When dividend pay-out is 25%

 $D1 = 7 \times 0.25 = 1.75$

 $g = br = 0.75 \times 0.2 = 0.15$

PO = D1/(Ke-g) = 1.75/(0.16-0.15) = Rs. 175

(ii) When dividend pay-out is 50%

D1 = 7×0.50 = Rs. 3.50

 $g = br = 0.50 \times 0.2 = 0.10$

P0 = D1 / (Ke - g) = 3.50 / (0.16 - 0.1) = Rs. 58.33

(iii) When dividend pay-out is 100%

D1 = 7×1.00 = Rs. 7.00

 $g = br = 0 \times 0.2 = 0$

P0 = D1 / (Ke - g) = 7.00 / (0.16 - 0.0) = Rs. 43.75