## 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 $=7, \mathrm{Ke}=16 \%$
(i) When dividend pay-out is $25 \%$

| D1 | = | $7 \times 0.25$ | = | 1.75 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| g | $=$ | br | = | $0.75 \times 0.2$ | $=$ |  |  |
| PO | = | D1 / (Ke-g) |  | 1.75 / (0.16 | 0.15) | $=$ | Rs. 175 |

(ii) When dividend pay-out is $50 \%$

| $\mathrm{D} 1=7 \times 0.50$ | $=$ | Rs. 3.50 |  |  |
| :--- | :--- | :--- | :--- | :--- |
| g | $=\mathrm{br}$ |  |  |  |
| P 0 | $=0.50 \times 0.2=0.10$ |  |  |  |
| $\mathrm{D} 1 /(\mathrm{Ke}-\mathrm{g})$ | $=$ | $3.50 /(0.16-0.1)$ | $=$ | Rs. 58.33 |

(iii) When dividend pay-out is 100\%

| D1 $=7 \times 1.00$ | $=$ | Rs. 7.00 |  |  |
| :--- | :--- | :--- | :--- | :--- |
| $\mathrm{~g}=\mathrm{br}$ | $=0 \times 0.2 \quad=$ | 0 |  |  |
| P 0 | $=\mathrm{D} 1 /(\mathrm{Ke}-\mathrm{g})$ | $=$ | $7.00 /(0.16-0.0)$ | $=$ |

Rs. 43.75

