Operating ratio 82.59% 131 **Operating Profit Ratio** 100 **Operating Ratio** = 82.59 100 17.41 % 132 Case 1 **Operating Profit Ratio Operating Profit Revenue from Operations** Χ 100 = 300000 2000000 Χ 100 15.00% = Case 2 Step 1 Revenue from operations **Operating Profit Operating Cost** 600000 510000 90000 = Step 2 **Operating Profit Ratio Operating Profit Revenue from Operations** Χ 100 90000 600000 Χ 100 = 15.00%

Case 3

Step 1

Gross profit ratio + Cost of goods sold ratio = 100 20 + Cost of goods sold ratio = 100

Cost of Goods Sold ratio = 100 - Gross profit ratio

100 - 20

= 80%

Step 2

Cost of Goods Sold = Revenue from operations X Cost of Goods Sold Ratio

360000 X 80%

= 288000

Step 3

Operating Cost = Cost of Goods Sold + Operating Expenses

288000 + 18000

= 306000

Step 4

Operating Profit = Revenue from operations - Operating Cost 360000 306000

= 54000

| Step 4 Operating Profit Ratio | = | Operating Profit 54000 | / | Revenue from Operations 360000 | X X | 100 100 |
|-------------------------------|--------|------------------------------|---|-----------------------------------|--------|------------|
| | | | | | | |
| Case 4 Step 1 Operating Cost | = | Cost of Goods Solo 360000 | I | + Operating Expense + 22500 | es | |
| | = | 382500 | | | | |
| Step 4 | | | | | | |
| Operating Profit = | Revenu | e from operations 450000 | - | Operating Cost 382500 | | |
| = | 6750 | 00 | | | | |
| Step 4 | | | | | | |
| Operating Profit Ratio | = | Operating Profit 67500 | / | Revenue from Operations 450000 | X X | 100 100 |
| | = | 15.00% | | | | |
| | | | | | | |

Case 5

Step 1

Gross Profit is 20% on sales
Let the sales be Rs 100 100
Gross Profit 20
Cost of Goods Sold 80

Now we want to find gross profit (numerator) from cost of goods sold (denominator)

Gross Profit = 20 / 80 X 400000 = 100000

Step 2

Operating Profit = Gross Profit - Operating Expenses

100000 25000

= 75000

Step 3

| Gross Profit | = | Revenue from operations | Χ | GP Ratio / | 100 |
|--------------|---|-------------------------|---|------------|-----|
| 100000 | | X | Χ | 20 / | 100 |

Revenue from Operations = Gross Profit X 100 / GP Ratio 100000 X 100 / 20

= 500000

Step 4

Operating Profit Ratio = Operating Profit / Revenue from Operations X 100 75000 / 500000 X 100

= 15.00%

| 133 (a) |) No Change This will increase purchases as well as stock. So no impact on COGS | | | | | | | | |
|---------|---|---|--|------------------|--------------------------|----------------|------------------------|----|-------------------------------|
| (b) | No Change | This will increase purchases as well as stock. So no impact on COGS | | | | | | | |
| (c) | No Change | | This transaction will increase the amount of operating profit and Revenue But the % of Operating profit to Revenue will remain same | | | | | | |
| (d) | No Change | | This will decrease purchases as well as stock. So no impact on COGS | | | | | | |
| | | | | | | | | | |
| 134 | Step 1 Revenue from operations | | = | Cash Sa 22000 | | + + | Credit Sales 300000 | - | Sales Return 20000 |
| | | | = 500000 | | | | | | |
| | Step 2 | | | | | | | | |
| | Operating Profit | = | Gross profit - 100000 - | | Operating Expenses 25000 | | | | |
| | | = | 75000 |) | | | | | |
| | Step 3 | | | | | | | | |
| | Net profit | = | Operating 75000 | _ | - | Non Ope 500 | erating Expenses 0 | ++ | Non Operating Income 30000 |
| | | = | 100000 |) | | | | | |

Step 4

| | Net Profit Ratio | = | Net Profit 100000 | / | Revenue from Operations 500000 | X X | 100 100 |
|-----|------------------------|---|---------------------------|---|------------------------------------|--------|-------------------------------------|
| | | = | 20% | | | | |
| | | | | | | | |
| 135 | Net Profit Ratio | = | Net Profit 120000 | / | Revenue from Operations 1200000 | X X | 100 100 |
| | | = | 10% | | | | |
| | | | | | | | |
| 136 | Step 1 Gross profit | = | Revenue from Ope 82000 | | - Cost of Revenue f | - | ions |
| | | = | 300000 | | | | |
| | Step 2 | | | | | | |
| | Operating Profit | = | Gross profit 300000 | - | Operating Expenses 209000 | | |
| | | = | 91000 | | | | |
| | Step 3 | | | | | | |
| | Net profit | = | Operating Profit | - | Non Operating expneses | + | Non Operating Income |
| | Net profit | = | Operating Profit 91000 | - | Interest on Debentures 40500 | ++ | Gain on sale of fixed asse 81000 |
| | | = | 131500 | | | | |

Step 4

= 16.04%

Note:

Interest on Debentures is a non operating expense Gain on Sale of Fixed asset is a non operating income

137 **Step 1**

= 10%

Step 2

= 40000

Step 3

= 60000

Step 4 Net Profit Ratio Net Profit Revenue from Operations 100 Χ = 60000 400000 Χ 100 15.00% = 138 Return on Investment NP Before Interest and Tax Capital Employed Χ 100 250000 1000000 Χ 100 25% = 139 Step 1 Capital Employed **Net Fixed Assets Net Working Capital** = + 2000000 1000000 + 3000000 = Step 2 NP Before Interest and Tax Return on Investment Capital Employed 100 Χ = 3000000 600000 Χ 100 20% = Step 1 140 Capital Employed = 15% Long Term Debt **Shareholders Funds** 800000 400000

+

= 1200000

Step 2

Return on Investment = NP Before Interest and Tax / Capital Employed X 100 400000 / 1200000 X 100

= 33.33%