

# TS Grewal

Class 12

Accountancy Solutions

Vol.-1



## CHAPTER-3 – Goodwill – Nature and Valuation

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### **Solution 1**

No. of Purchase Years = 3 years

Average Profit =  $12,000 + 18,000 + 16,000 + 14,000/4 = ₹15,000$

Goodwill = No. of Purchase Years x Average Profit

Therefore, Goodwill =  $3 \times 15,000$

= ₹45,000

### **Solution 2**

No. of Purchase Years = 4 years

Average Profit =  $4,00,000 + 3,98,000 + 4,50,000 + 4,45,000 +$

$5,00,000/5 = ₹4,38,600$

Goodwill = Average Profit x Number of Years of Purchase

Therefore, Goodwill =  $4,38,600 \times 4$

= ₹17,54,400

### **Solution 3**

Goodwill = Average Profit x Number of Years of Purchase

Average Profit =  $8,00,000 + 15,00,000 + 18,00,000 - 4,45,000 +$

$13,00,000/5 = ₹10,00,000$

Numbers of Years of Purchase = 3

Therefore, Goodwill =  $10,00,000 \times 3 = ₹30,00,000$

### **Solution 4**

Goodwill = Average Profit x Number of Years of Purchase

=  $2,00,000 \times 1.5 = ₹3,00,000$

### **Working Notes:**

Calculation of Profit for the last 3 Years:

| Year | Profit |
|------|--------|
|------|--------|

|                      |                             |
|----------------------|-----------------------------|
| 1 <sup>st</sup> Year | 1,00,000                    |
| 2 <sup>nd</sup> Year | (1,00,000 x 2) = 2,00,000   |
| 3 <sup>rd</sup> Year | (2,00,000 x 1.5) = 3,00,000 |
| <b>Total Profit</b>  | <b>6,00,000</b>             |

Therefore, Average Profit =  $6,00,000/3 = ₹2,00,000$

### **Solution 5**

Goodwill = Average Profit x Number of Years of Purchase  
=  $14,125 \times 4 = ₹56,500$

### **Working Notes:**

Calculation of Profit for the last 5 Years:

| Year                | Profit        |
|---------------------|---------------|
| 2014-15             | 14,000        |
| 2015-16             | 15,500        |
| 2016-17             | 10,000        |
| 2017-18             | 16,000        |
| 2018-19             | 15,000        |
| <b>Total Profit</b> | <b>70,500</b> |

Therefore, Average Profit for 5 Years:  $70,500/5 = ₹14,100$

Calculation of Profit for the last 4 Years:

| Year                | Profit        |
|---------------------|---------------|
| 2015-16             | 15,500        |
| 2016-17             | 10,000        |
| 2017-18             | 16,000        |
| 2018-19             | 15,000        |
| <b>Total Profit</b> | <b>56,500</b> |

Therefore, Average Profit for 4 Years:  $56,500/4 = ₹14,125$

Since the profits for the last 4 years are greater than the profits for the last 5 years, ₹14,125 will be taken as the average profit for valuation of goodwill.

### **Solution 6**

Average Profit for 3 Years =  $2,88,000 + 1,81,800 + 1,87,200/3 = ₹2,19,000$

Four Years' Average Profits =  $2,88,000 + 1,81,800 + 1,87,200 + 2,53,200/4 = ₹2,27,550$

Since the average profit for 4 year is greater than the average profit for 3 years, ₹2,27,550 will be taken as the total average profit for goodwill valuation.

### **Solution 7**

Normal Profit = Total Profit – Abnormal Gain + Abnormal Loss

| Year         | Total Profit | (+) Abnormal Loss | (-) Abnormal Gain              | Normal Profit (Total Profit – Abnormal Gain + Abnormal Loss) |
|--------------|--------------|-------------------|--------------------------------|--|
| 16-17        | 1,00,000     |                   | 12,500                         | 87,500   |
| 17-18        | 1,25,000     | 25,000            |                                | 1,50,000   |
| 18-19        | 1,12,500     |                   | 12,500<br>(Unrecorded Expense) | 1,00,000   |
| <b>Total</b> |              |                   |                                | <b>3,37,500</b>  |

Average Profit =  $87,500 + 1,50,000 + 1,00,000/3 = ₹1,12,500$

Therefore, Goodwill = Average Profit x Number of Years of Purchase

$$= 1,12,500 \times 2 = ₹2,25,000$$

### **Solution 8**

Goodwill = Average Profit x Number of Years of Purchase

Calculation of Normal Profit:

| <b>Years</b>                | <b>2015</b>     | <b>2016</b>     | <b>2017</b>     | <b>2018</b>     | <b>2019</b>       |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| Profit/Loss                 | 1,50,000        | 3,50,000        | 5,00,000        | 7,10,000        | (5,90,000)        |
| Add:                        | —               | —               | —               | —               | 1,00,000          |
| Adjustments:                | —               | —               | —               | —               | (25,000)          |
| Less:                       | —               | —               | —               | (10,000)        | (10,000)          |
| Travelling Expenses         |                 |                 |                 |                 |                   |
| Less: Depreciation Interest |                 |                 |                 |                 |                   |
| <b>Normal Profit</b>        | <b>1,50,000</b> | <b>3,50,000</b> | <b>5,00,000</b> | <b>7,00,000</b> | <b>(5,25,000)</b> |

$$\text{Normal Average Profit} = 1,50,000 + 3,50,000 + 5,00,000 + 7,00,000 - 5,25,000/5$$

$$= 11,75,000/5 = ₹2,35,000$$

Goodwill = Average Profit x Number of Years of Purchase

$$\text{Therefore, Goodwill} = 2,35,000 \times 4 = ₹9,40,000$$

### **Solution 9**

Calculation of Normal Profit:

| <b>Year</b>  | <b>Total Profit</b> | <b>(+) Abnormal Loss</b> | <b>(-) Abnormal Gain</b> | <b>Normal Profit (Total Profit – Abnormal Gain + Abnormal Loss)</b> |
|--------------|---------------------|--------------------------|--------------------------|---|
| 2017         | 1,10,000            |                          | 30,000                   | 80,000  |
| 2018         | (80,000)            | 1,10,000                 | -                        | 30,000  |
| 2019         | 30,000              | 40,000                   | -                        | 70,000  |
| <b>Total</b> |                     |                          |                          | <b>1,80,000</b>   |

Normal Average Profit =  $1,80,000/3 = ₹60,000$

Number of Years of Purchase = 2 years

Therefore, Goodwill = Normal Average Profit x Number of Years of Purchase

=  $60,000 \times 2 = ₹1,20,000$

### **Solution 10**

Calculation of Normal Profit:

| <b>Year</b> | <b>Total Profit</b> | <b>(+) Abnormal Loss</b> | <b>(-) Abnormal Gain</b> | <b>Normal Profit (Total Profit – Abnormal Gain +</b> |
|-------------|---------------------|--------------------------|--------------------------|--|
|-------------|---------------------|--------------------------|--------------------------|--|

|              |          |        |                               | <b>Abnormal<br/>Loss)</b> |
|--------------|----------|--------|-------------------------------|---------------------------|
| 2017         | 50,000   | -      | 5,000                         | 45,000                    |
| 2018         | (20,000) | 30,000 | -                             | 10,000                    |
| 2019         | 70,000   | -      | 18,000 +<br>8,000 =<br>26,000 | 44,000                    |
| <b>Total</b> |          |        |                               | <b>99,000</b>             |

Normal Average Profit =  $99,000/3 = ₹33,000$

Goodwill = Normal Average Profit x Number of Years of Purchase

Number of Years of Purchase = 2 years

Therefore, Goodwill =  $33,000 \times 2 = ₹66,000$

Z's Share of Goodwill = Firm's Goodwill x Z's Profit Share

=  $66,000 \times 1/4 = ₹16,500$

### **Solution 11**

Calculation of Normal Profit:

| <b>Year</b>                  | <b>Profit/Loss</b> | <b>Adjustment</b> | <b>Normal Profit</b> |
|------------------------------|--------------------|-------------------|----------------------|
| 31 <sup>st</sup> March, 2016 | 80,000             | 20,000            | 1,00,000             |
| 31 <sup>st</sup> March, 2017 | 1,45,000           | (25,000)          | 1,20,000             |
| 31 <sup>st</sup> March, 2018 | 1,60,000           | (15,000)          | 1,45,000             |
| 31 <sup>st</sup> March, 2019 | 2,00,000           | —                 | 2,00,000             |
| <b>Total</b>                 |                    |                   | <b>5,65,000</b>      |

Average Profit = Total Normal profits/Number of Years =  $5,65,000$

=  $₹1,41,250$

Goodwill = Average Profit x Number of Years of Purchase

=  $1,41,250 \times 2 = ₹2,82,500$

## Solution 12

Calculation of Normal Profit/Loss:

| Particulars                      | Year | 31 <sup>st</sup> March, 2015 | 31 <sup>st</sup> March, 2016 | 31 <sup>st</sup> March, 2017 | 31 <sup>st</sup> March, 2018 | 31 <sup>st</sup> March, 2019 |
|----------------------------------|------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Profit/Loss                      |      | (90,000)                     | 1,60,000                     | 1,50,000                     | 65,000                       | 1,77,000                     |
| Less: Gain on Selling Machinery  |      |                              | 50,000                       |                              |                              |                              |
| Add: Abnormal Loss               |      |                              |                              | 20,000                       |                              |                              |
| Add: Existing machinery Overhaul |      |                              |                              |                              |                              |                              |
| Debited to Repairs A/c           |      |                              |                              |                              | 1,00,000                     |                              |
| Less: Depreciation at 20%        |      |                              |                              |                              | 15,000                       | 17,000                       |
| <b>Normal Profit/Loss</b>        |      | <b>(90,000)</b>              | <b>1,10,000</b>              | <b>1,70,000</b>              | <b>1,50,000</b>              | <b>1,60,000</b>              |

Average Profits = Total Profits/Number of Years

$$= (90,000) + 1,10,000 + 1,70,000 + 1,50,000 + 1,60,000/5 = 5,00,000/5 = ₹1,00,000$$

Goodwill = Average Profits x Number of Years of Purchase

$$= ₹1,00,000 \times 3 = ₹3,00,000$$



### **Solution 13**

Calculation of Total Product Profit:

| Year         | Profit | Weight    | Product (Profit x Weight) |
|--------------|--------|-----------|---------------------------|
| 2015         | 20,000 | 1         | 20,000                    |
| 2016         | 24,000 | 2         | 48,000                    |
| 2017         | 30,000 | 3         | 90,000                    |
| 2018         | 25,000 | 4         | 1,00,000                  |
| 2019         | 18,000 | 5         | 90,000                    |
| <b>Total</b> |        | <b>15</b> | <b>3,48,000</b>           |

Weighted Average Profit = Total Profit/Total Number of Weights  
= 3,48,000/15 = ₹23,200

Therefore, Goodwill = Weighted Average Profit x Number of Years of Purchase

= 23,200 x 3 = ₹69,600

### **Solution 14**

Calculation of Partner's Remuneration after Profit:

| Year           | Partner's Remuneration before Profit (I) | Partners' Remuneration (II) | Partner's Remuneration after Profit (I – II) |
|----------------|--|-----------------------------|--|
| <b>2016-17</b> | 2,00,000                                 | 90,000                      | 1,10,000                                     |
| <b>2017-18</b> | 2,30,000                                 | 90,000                      | 1,40,000                                     |
| <b>2018-19</b> | 2,50,000                                 | 90,000                      | 1,60,000                                     |

Calculation of Weighted Average Profit:

| Year    | Profit       | Weight   | Product (Profit x Weight) |
|---------|--------------|----------|---------------------------|
| 2016-17 | 1,10,000     | 1        | 1,10,000                  |
| 2017-18 | 1,40,000     | 2        | 2,80,000                  |
| 2018-19 | 1,60,000     | 3        | 4,80,000                  |
|         | <b>Total</b> | <b>6</b> | <b>8,70,000</b>           |

Weighted Average Profit = Total Product Profit/Total Number of Weights

$$= 8,70,000/6 = ₹1,45,000$$

Therefore, Goodwill = Weighted Average Profit x Number of Years of Purchase

$$= 1,45,000 \times 2 = ₹2,90,000$$

### Solution 15

Calculation of Weighted Profits:

| Year             | Profits Before Salary | Profits After Salary        | Weights  | Weighted Profits |
|------------------|-----------------------|-----------------------------|----------|------------------|
| 31st March, 2017 | 1,40,000              | 1,40,000-90,000<br>= 50,000 | 1        | 50,000           |
| 31st March, 2018 | 1,01,000              | 1,01,000-90,000<br>= 11,000 | 2        | 22,000           |
| 31st March, 2019 | 1,30,000              | 1,30,000-90,000<br>= 40,000 | 3        | 1,20,000         |
|                  | <b>Total</b>          |                             | <b>6</b> | <b>1,92,000</b>  |

Weighted Average Profit = Total Product Profit/Total Number of Weights

$$= 1,92,000/6 = ₹32,000$$

Therefore, Goodwill = Weighted Average Profit x Number of Years of Purchase

$$= 32,000 \times 4 = ₹1,28,000$$

### Solution 16

Calculation of Normal Profit/Loss:

| Particulars                          | Year | 31st March, 2016 | 31st March, 2017 | 31st March, 2018 | 31st March, 2019 |
|--------------------------------------|------|------------------|------------------|------------------|------------------|
| Profit                               |      | 25,000           | 27,000           | 46,900           | 53,810           |
| Add: Repair of Plant                 |      |                  | 10,000           |                  |                  |
| Less: Depreciation at 10%            |      |                  | (1,000)          | (900)            | (810)            |
| Less: Overvaluation of Closing Stock |      |                  | (1,000)          | (2,000)          |                  |
| Add: Overvaluation of Opening Stock  |      |                  |                  | 1,000            | 2,000            |
| Less: Annual Charges                 |      | (5,000)          | (5,000)          | (5,000)          | (5,000)          |
| <b>Normal Profit/Loss</b>            |      | <b>20,000</b>    | <b>30,000</b>    | <b>40,000</b>    | <b>50,000</b>    |

Calculation of Weighted Profits:

| Year             | Normal Profits | Weights | Weighted Profits (Normal Profits x Weights) |
|------------------|----------------|---------|---|
| 31st March, 2016 | 20,000         | 1       | 20,000                                      |
| 31st March, 2017 | 30,000         | 2       | 60,000                                      |

|                     |        |           |                 |
|---------------------|--------|-----------|-----------------|
| 31st March,<br>2018 | 40,000 | 3         | 1,20,000        |
| 31st March,<br>2019 | 50,000 | 4         | 2,00,000        |
| <b>Total</b>        |        | <b>10</b> | <b>4,00,000</b> |

Weighted Average Profit = Total Product Profit/Total Number of Weights

$$= 4,00,000/10 = ₹40,000$$

Goodwill = Weighted Average Profit x Number of Years of Purchase

$$= 40,000 \times 3 = ₹1,20,000$$

### **Solution 17**

Calculation of Normal Profits:

| <b>Year</b> | <b>Adjustment</b>   | <b>Normal Profits</b> |
|-------------|---|-----------------------|
| <b>2017</b> | Total Profits - Profit on Sale of Assets<br>50,000 – 5,000                    | <b>45,000</b>         |
| <b>2018</b> | Loss by Fire – Total Loss<br>35,000 – 20,000                                  | <b>15,000</b>         |
| <b>2019</b> | Total Profit – Insurance Claim Received – Dividend<br>70,000 – 18,000 – 8,000 | <b>44,000</b>         |

Calculation of Weighted Profit:

| <b>Year</b> | <b>Normal Profits</b> | <b>Weights</b> | <b>Weighted Profits (Normal Profit x Weights)</b> |
|-------------|-----------------------|----------------|---|
| <b>2017</b> | 45,000                | 1              | 45,000  |
| <b>2018</b> | 15,000                | 2              | 30,000  |
| <b>2019</b> | 44,000                | 3              | 1,32,000  |

|              |          |                 |
|--------------|----------|-----------------|
| <b>Total</b> | <b>6</b> | <b>2,07,000</b> |
|--------------|----------|-----------------|

Weighted Average Profit = Total Weighted Profit/Total Number of Weights

$$= 2,07,000/6 = ₹34,500$$

Therefore, Goodwill = Weighted Average Profit x Number of Years of Purchase

$$= 34,500 \times 2 = ₹69,000$$

$$\text{Ramesh's Goodwill Share} = 69,000 \times \frac{1}{4} = ₹17,250$$

### Solution 18

Calculation of Normal Profit:

| Year             | Profit/Loss | Adjustments | Normal Profit |
|------------------|-------------|-------------|---------------|
| 31st March, 2015 | 70,000      | 20,000      | 90,000        |
| 31st March, 2016 | 1,40,000    | (30,000)    | 1,10,000      |
| 31st March, 2017 | 1,00,000    | —           | 1,00,000      |
| 31st March, 2018 | 1,60,000    | (10,000)    | 1,50,000      |
| 31st March, 2019 | 1,65,000    | 10,000      | 1,75,000      |

Calculation of Weighted Average Profit:

| Year             | Normal Profit | Weight    | Product Profit   |
|------------------|---------------|-----------|------------------|
| 31st March, 2015 | 90,000        | 1         | 90,000           |
| 31st March, 2015 | 1,10,000      | 2         | 2,20,000         |
| 31st March, 2015 | 1,00,000      | 3         | 3,00,000         |
| 31st March, 2015 | 1,50,000      | 4         | 6,00,000         |
| 31st March, 2015 | 1,75,000      | 5         | 8,75,000         |
| <b>Total</b>     |               | <b>15</b> | <b>20,85,000</b> |

Weighted Average Profit = Total Product Profit/Total Number of Weights

$$= 20,85,000/15 = ₹1,39,000$$

Therefore, Goodwill = Weighted Average Profit × Number of Years of Purchase

$$=1,39,000 \times 3 = ₹4,17,000$$

### **Solution 19**

Calculation of Normal Profits:

| <b>Particulars</b>                 | <b>Year</b> | <b>31st March, 2015</b> | <b>31st March, 2016</b> | <b>31st March, 2017</b> | <b>31st March, 2018</b> | <b>31st March, 2019</b> |
|------------------------------------|-------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Profit                             |             | 1,25,000                | 1,40,000                | 1,20,000                | 55,000                  | 2,57,000                |
| Add: Repairs on New Machine        |             |                         |                         |                         | 1,00,000                |                         |
| Less: Depreciation at 20%          |             |                         |                         |                         | 15,000                  | 17,000                  |
| Add: Closing Stock Undervaluation  |             |                         |                         |                         | 50,000                  |                         |
| Less: Opening Stock Undervaluation |             |                         |                         |                         |                         | 50,000                  |
| Less: Partners' Remuneration       |             | 40,000                  | 40,000                  | 40,000                  | 40,000                  | 40,000                  |
| <b>Normal Profit/Loss</b>          |             | <b>85,000</b>           | <b>1,00,000</b>         | <b>80,000</b>           | <b>1,50,000</b>         | <b>1,50,000</b>         |

Calculation of Weighted Profits:

| <b>Year</b> | <b>Normal Profits</b> | <b>Weights</b> | <b>Weighted Profits (Normal Profits x Weights)</b> |
|-------------|-----------------------|----------------|--|
| 31st March, | 85,000                | 1              | 85,000   |

|                              |          |           |                  |
|------------------------------|----------|-----------|------------------|
| 2015                         |          |           |                  |
| 31 <sup>st</sup> March, 2016 | 1,00,000 | 2         | 2,00,000         |
| 31 <sup>st</sup> March, 2017 | 80,000   | 3         | 2,40,000         |
| 31 <sup>st</sup> March, 2018 | 1,50,000 | 4         | 6,00,000         |
| 31 <sup>st</sup> March, 2019 | 1,50,000 | 5         | 7,50,000         |
| <b>Total</b>                 |          | <b>15</b> | <b>18,75,000</b> |

Weighted Average Profit = Total Weighted Profits/Total Number of Weights

$$= 18,75,000/15 = ₹1,25,000$$

Therefore, Goodwill = Weighted Average Profits x Number of Years of Purchase

$$= 1,25,000 \times 3 = ₹3,75,000$$

### **Solution 20**

| <b>Particulars</b>             | <b>2015-16</b> | <b>2016-17</b> | <b>2017-18</b> | <b>2018-19</b> |
|--------------------------------|----------------|----------------|----------------|----------------|
| Profits                        | 1,01,000       | 1,24,000       | 1,00,000       | 1,40,000       |
| Capitalised Repair             |                |                | 30,000         |                |
| Depreciation at 10%            |                |                | (1,000)        | (2,900)        |
| Overvaluation of Closing Stock |                | (12,000)       | 12,000         |                |
| Management Cost                | (24,000)       | (24,000)       | (24,000)       | (24,000)       |

|                        |               |                 |                 |                 |
|------------------------|---------------|-----------------|-----------------|-----------------|
| Sale Proceeds          |               | (10,000)        |                 |                 |
| Incorrect Depreciation |               |                 | 900             | 810             |
| Adjusted Profits       | 77,000        | 78,000          | 1,17,900        | 1,13,910        |
| Weights                | 1             | 2               | 3               | 4               |
| <b>Product</b>         | <b>77,000</b> | <b>1,56,000</b> | <b>3,53,700</b> | <b>4,55,640</b> |

Weighted Average Profit = Total Product Profits/Total Number of Weights

$$= (77,000 + 1,56,000 + 3,53,700 + 4,55,640) / (1 + 2 + 3 + 4)$$

$$= 1,04,234/10 = ₹1,04,234$$

Therefore, Goodwill = Weighted Average Profits x Number of Years of Purchase

$$= ₹1,04,234 \times 3 = ₹3,12,702$$

**Note:** Sale wrongly credited in 2015-16 is deducted after adjusting ₹1,000 profit.

### **Solution 21**

Average Normal Profits = Average Profits + Undervaluation of Stock = 80,000 + 8,000  
= ₹88,000

Normal Profits = Capital Employed x Rate of Income/100 =  
8,00,000 x 8/100 = ₹64,000

Super Profits = Average Profits – Normal Profits = 88,000 – 64,000  
= ₹24,000

Therefore, Goodwill = Super Profits x Number of Years of Purchase

$$= ₹24,000 \times 7 = ₹1,68,000$$

### **Solution 22**



Normal Profits = Capital x Normal Rate of Income/100 = 50,000 x 15/100 = ₹7,500

Actual Profit = ₹16,000

Super Profit = Actual Profit – Normal Profit = 16,000 – 7,500 = ₹8,500

Total Years of Purchase = 4

Therefore, Goodwill = Super Profits x Number of Years of Purchase

= 8,500 x 4 = ₹34,000

### **Solution 23**

Super Profit = Average Profit – Normal Profit

Average Profit = Total Weighted Profit/Total Number of Weights

= 30,000 + 36,000 + 42,000/3

= 1,08,000/3 = ₹36,000

Normal Profits = Capital x Normal Rate of Income/100 = 1,00,000 x 15/100 = ₹15,000

Super Profit = Average Profit – Normal Profit = ₹36,000 – ₹15,000 = ₹21,000

Total Years of Purchase = 2

Goodwill = Super Profits x Number of Years of Purchase

Therefore, Goodwill = 21,000 x 2 = ₹42,000

### **Solution 24**

Actual Profits = ₹5,000

Normal Profits = Capital x Normal Rate of Income/100 = 25,000 x 15/100 = ₹3,750

Super Profits = Actual Profits - Normal Profits = 5,000 – 3,750 = ₹1,250

Number of Years of Purchase = 3 years

Goodwill = Super Profits x Number of Years of Purchase  
= ₹1,250 x 3 = ₹3,750

### **Solution 25**

Goodwill = Super Profits x Number of years of Purchase

Normal Profits = Capital x Normal Rate of Income/100 = 2,00,000 x 10/100 = ₹20,000

Super Profits = Actual Profits - Normal Profits = 30,000 – 20,000 = ₹10,000

Years of Purchase = 2 years

Therefore, Goodwill = 10,000 x 2 = ₹20,000

### **Solution 26**

Goodwill = Super Profits x Number of Years of Purchase

Normal Profits = Capital x Normal Rate of Income/100 = 80,000 x 15/100 = ₹12,000

Average Profit = Total Weighted Profit/Total Number of Weights  
= 17,000 + 20,000 + 23,000/3 = 60,000/3 = ₹20,000

Years of Purchase = 2 years

Therefore, Goodwill = 8,000 x 2 = ₹16,000

### **Solution 27**

Goodwill = Super Profits × No. of years of Purchase

Normal Profits = Capital x Normal Rate of Income/100 = 4,00,000 x 15/100 = ₹60,000

| Year | Profit before | Partners' | Actual Profit after |
|------|---------------|-----------|---------------------|
|------|---------------|-----------|---------------------|

|      | <b>Partners' Remuneration (I)</b> | <b>Remuneration (II)</b> | <b>Remuneration (I – II)</b> |
|------|-----------------------------------|--------------------------|------------------------------|
| 2017 | 1,70,000                          | 1,00,000                 | 70,000                       |
| 2018 | 2,00,000                          | 1,00,000                 | 1,00,000                     |
| 2019 | 2,30,000                          | 1,00,000                 | 1,30,000                     |

Average Profit = Total Weighted Profit/Total Number of Weights  
= 70,000 + 1,00,000 + 1,30,000/3 = 3,00,000/3 = ₹1,00,000

Super Profits = Actual Profits – Normal Profits = 1,00,000 – 60,000  
= ₹40,000

Number of Years of Purchase = 2 years

Therefore, Goodwill = 40,000 x 2 = ₹80,000

### **Solution 28**

Goodwill = Super Profits x Number of years of Purchase

Normal Profits = Capital Employed Normal Rate of Income/100

Capital Employed = Total Assets – Non – Trade Investments –  
Outside Liabilities

= 23,00,000 – 1,00,000 – 5,60,000 = ₹16,40,000

Normal Profits = 16,40,000 x 10/100 = ₹1,64,000

Average Profits = ₹4,00,000

Super Profits = Average Profits - Normal Profits = 4,00,000  
– 1,64,000 = ₹2,36,000

Number of Years of Purchase = 3 years

Therefore, Goodwill = 2,36,000 x 3 = ₹7,08,000

### **Solution 29**

Goodwill = Super Profits x Number of Years of Purchase

Normal Profits = Capital x Normal Rate of Income/100

Capital Employed = Total Assets – Non–Trade Investments –  
Outside Liabilities

$$= 19,50,000 - 50,000 - 4,00,000 = ₹15,00,000$$

$$\text{Normal Profits} = 15,00,000 \times 15/100 = ₹2,25,000$$

$$\text{Average Profits} = ₹4,00,000$$

$$\text{Super Profits} = \text{Average Profits} - \text{Normal Profits} = 4,00,000 - 2,25,000 = ₹1,75,000$$

$$\text{Number of Years of Purchase} = 4 \text{ years}$$

$$\text{Therefore, Goodwill} = 1,75,000 \times 4 = ₹7,00,000$$

### **Solution 30**

$$\text{Goodwill} = \text{Super Profits} \times \text{Number of Years of Purchase}$$

$$\text{Normal Profits} = \text{Capital} \times \text{Normal Rate of Income}/100$$

$$\text{Capital Employed} = \text{Total Assets} - \text{Outside Liabilities}$$

$$= 22,00,000 - 5,60,000 - 4,00,000 = ₹16,40,000$$

$$\text{Normal Profits} = 16,40,000 \times 10/100 = ₹1,64,000$$

$$\text{Average Profits} = ₹8,00,000$$

$$\text{Super Profits} = \text{Average Profits} - \text{Normal Profits} = 8,00,000 - 1,64,000 = ₹6,36,000$$

$$\text{Number of Years of Purchase} = 2.5$$

$$\text{Therefore, Goodwill} = 6,36,000 \times 2.5 = ₹15,90,000$$