

Short Questions for NCERT Accountancy Solutions Class 12 Part 1 Chapter 3**1. Identify various matters that need adjustments at the time of admission of a new partner.**

Following matters need adjustment when adding a new partner

1. Capital Adjustment among partners
2. Revised calculation of profit sharing ratio
3. Evaluating and adjusting the goodwill of partners who are sacrificing their share
4. Accumulated profits, reserves and losses should be distributed to old partners as per the old ratio that was agreed upon.
5. Revaluation of the Liabilities and Assets to determine the current value and distribution of profit or loss as per the old ratio

2. Why is it necessary to ascertain new profit sharing ratio even for old partners when a new partner is admitted?

At the time of admission of a new partner, the existing partners sacrifice their present profit sharing ratio to make way for a share in profit sharing to new partner which results in reducing their profit. Therefore it is essential to determine the new profit sharing ratio for old partners on the occasion of adding a new partner as it creates a more justified share of profit.

3. What is sacrificing ratio? Why is it calculated?

The portion of profit sharing ratio that is sacrificed by current partners when a new partner joins the firm is called as sacrificing ratio. It is calculated as the difference between old profit sharing ratio and new profit sharing ratio.

Sacrificing ratio = Old profit sharing ratio - New profit sharing ratio

It is compulsory to determine this ratio as the new partner has to reimburse the existing partner for making the sacrifice of profit. It is paid to them as goodwill.

4. On what occasions sacrificing ratio is used?

Sacrificing ratio needs to be used in these occasions:

1. When it is mutually decided by partners of the firm to change profit sharing ratio among the partners.
2. A new partner is introduced in the firm and accordingly the sum contributed by the new partner is distributed as goodwill based on the sacrificing ratio of existing partners.

5. If some goodwill already exists in the books and the new partner brings in his share of goodwill in cash, how will you deal with existing amount of goodwill?

Goodwill that exists in the firms before arrival of a new partner must be written off between the existing partners in the ratio of their profit sharing as previously decided. The following journal entry needs to be passed.

Old Partner's Capital A/c

Dr.

To Goodwill A/c

(Being goodwill written off in the old ratio between existing partners)

6. Why is there need for the revaluation of Liabilities and Assets on the admission of a partner?

When a new partner gets admitted in the firm, there is a need to revalue the Liabilities and Assets of the firm for determining the true value on that day. Revaluation is helpful as the value of Liabilities and Assets may increase or decrease and as such their values in old balance sheet may be not justified, also some assets or liabilities may not be recorded at all. Hence, for recording the changes in market value for the Liabilities and Assets, a revaluation account is needed to be prepared and the associated profits or losses needs to be distributed between the existing partners of firm.

Long Questions for NCERT Accountancy Solutions Class 12 Part 1 Chapter 3

1. Do you advise that Liabilities and Assets must be revalued at the time of admission of a partner? If so, why? Also describe how is this treated in the book of account?

It is logical to revalue Liabilities and Assets when a new partner gets admitted in the firm, as it is helpful in determining the true value of them on that day. Revaluation is helpful as the value of Liabilities and Assets may increase or decrease and as such their values in existing balance sheet may be not justified, also some assets or liabilities may not be recorded at all. Hence, for recording the changes in market value for the Liabilities and Assets, a revaluation account is needed to be prepared and the associated profits or losses needs to be distributed between the existing partners of firm.

Following journal entries are added to the account on the date a new partner is admitted in a firm.

i. When asset value increases:

Assets A/c	Dr.
To Revaluation A/c	
(For increase in asset value)	

ii) When asset value decreases:

Revaluation A/c	Dr.
To Asset A/c	
(For Decrease in asset value)	

iii) When Liabilities increase:

Revaluation A/c	Dr.
To Liabilities A/c	
(For increase in liabilities value)	

iv) When liabilities decrease:

Liability A/c	Dr.
To Revaluation A/c	
(For decrease in liabilities value)	

v) To record assets that are unrecorded:

Unrecorded Assets A/c	Dr.
To Revaluation A/c	
(Recording unrecorded assets)	

vi) To record liabilities that are unrecorded :

Revaluation A/c	Dr.
To Unrecorded Liabilities A/c	

(To record unrecorded liabilities)

vii) Transferring credit balance of Revaluation account:

Revaluation	Dr.
To Old Partner's Capital A/c	

(Transfer of profit earned from Revaluation to Old Partners as per existing profit sharing ratio)

vii) Transferring debit balance of Revaluation account:

Old Partner's Capital A/c	Dr.
To Revaluation A/c	

(Transfer of loss on revaluation to Old Partners as per existing profit sharing ratio)

2. What is goodwill? What are the factors that affect goodwill?

Goodwill refers to the intangible asset that represents the firm's value and reputation and the brand name that it carries in the market. Goodwill is earned by a firm from the work it does which helps earn people trust by meeting all customer demands both in quality and quantity. Having a positive goodwill is very much helpful for a firm to earn extraordinary profits in comparison to its competitors. It also ensures profits that keep coming in the future and helps in retaining old customers.

Factors affecting firms' goodwill are:

1. **Product Quality:** A firm which is constantly delivering the best product for its customers will have a greater goodwill.
2. **Location:** A central location makes it easy to reach and attracts more footfalls which leads to higher sales and more goodwill.
3. **Management:** Cost efficiency and higher productivity can be achieved by having an efficient management in place, also it ensures quality products at less price which increases goodwill.

4. Market Structure: A firm will enjoy more benefits of goodwill if the market is monopolistic in nature and there are no substitutes, it will add more goodwill to the firm.
5. Other Advantages: A firm that is getting benefits such as continuous supply of fuel, power and raw materials and uses it to produce quality goods enjoys a higher goodwill.

3. Explain various methods of valuation of goodwill.

There are four different methods of goodwill valuation:

1. Average Profit Method: In this method, the calculation of goodwill is done based on the average profits of the past years. It can be calculated as

Goodwill = Average Profit × No. of Years Purchase

$$\text{Average Profit} = \frac{\text{Total Profit of Past Given Years}}{\text{Number of Years}}$$

Here, the number of years of purchase signifies the years till which the firm expects profits to generate in the same way as current period

Following steps are involved in this method

1. Determine total profit of past years
2. Add all losses which are abnormal in nature such as theft, fire etc.
3. Add all normal income, if not done previously
4. Deduct all incomes that are not obtained from business, and all such abnormal incomes for e.g winning a lottery
5. Deduct all normal expenses, if not deducted previously
6. Calculate the average profit, by dividing total profit determined in the previous step
7. Multiply the average profit hence obtained to the number of year's purchases in order to determine goodwill.

Example:

Last 5 years profits are 3,00,000, 9,00,000, (6,00,000), 15,00,000, 24,00,000.

Goodwill calculated as:

$$\begin{aligned} \text{Average Profit} &= \frac{3,00,000 + 9,00,000 + 15,00,000 + 24,00,000 - 6,00,000}{5} = \frac{45,00,000}{5} \\ &= 9,00,000 \end{aligned}$$

$$\text{Goodwill} = 9,00,000 \times 4 = 36,00,000$$

2. Weight Average Method: In this method, weights are allocated to each year's profit with the highest weight given to recent year's profit and lower weights marked for past years profits. The product of the profits and weights are added and divided by the total weight to determine weighted average profits. It is a modified version of Average Profit Method. The following formulae is used.

$$\text{Weighted Average Profit} = \frac{\text{Total Products of Profits}}{\text{Total of Weights}}$$

$$\text{Goodwill} = \text{Weighted Average Profit} \times \text{Number of Years Purchase}$$

The following steps are involved:

1. Assign highest weightage to recent year's profit and lowest weightage to past years profits.
2. Multiply weights with the profits corresponding to each year
3. Determine product total
4. Divide the product total with total of weightage to find Weighted Average Profit
5. Multiply the weighted average profit with number of years purchase

For example:

Last 5 years profits are ₹ 3,00,000, ₹ 9,00,000, ₹ (6,00,000), ₹ 15,00,000, ₹ 24,00,000.

Goodwill calculated as:

Profit/Loss ₹	Weights	Product ₹
3,00,000	1	3,00,000 × 1 = 3,00,000
9,00,000	2	9,00,000 × 2 = 18,00,000
(6,00,000)	3	(6,00,000) × 3 = (18,00,000)
15,00,000	4	15,00,000 × 4 = 60,00,000
24,00,000	5	24,00,000 × 5 = 1,20,00,000
Total	15	₹ 1,83,00,000

$$\text{Weighted Average Profit} = \frac{1,83,00,000}{15} = 1,220,000$$

$$\begin{aligned} \text{Goodwill} &= 1,220,000 \times 4 \\ &= 4,880,000 \end{aligned}$$

3. Super Profit Method: In this method, goodwill is determined on excess profit earned by a firm as compared to profit earned by rivals in the same industry. The excess profit earned over normal profit is called as Super Normal Profit

Following steps are involved:

1. Calculate the average profit
2. Calculating average capital engaged

$$\text{Average Capital Employed} = \frac{\text{Opening Capital Employed} + \text{Closing Capital Employed}}{2}$$

$$\text{Capital Employed} = \text{All Assets} - \text{Goodwill} - \text{Fictitious Assets} - \text{External Liabilities}$$

3. Calculating normal profit

$$\text{Normal Profit} = \text{Average Capital employed} \times \frac{\text{Normal Rate of Return}}{100}$$

4. Calculation of Super Normal Profit using the formulae: Super Normal Profit = Average Profit – Normal Profit

5. Multiply super normal profit with number of years purchase to determine goodwill.

4. Capitalisation Method: Goodwill is determined by two ways as follows:

a) By Average Profit capitalisation. b) By Super Profit capitalisation.

a) By Average Profit capitalisation

Following steps are involved:

1. Average profit is calculated
2. Calculating average profits capitalised value using the formulae

$$\text{Capitalised value of Average Profit} = \text{Average Profit} \times \frac{100}{\text{Normal Rate of Return}}$$

3. Determine Actual Capital Employed
4. Deduct Actual Capital Employed from Capitalised Average Profit to calculate goodwill.

$$\text{Goodwill} = \text{Capitalised Average Profit} - \text{Actual Capital Employed}$$

b) By Super Profit capitalisation.

Following steps are involved:

1. Capital Employed for calculation
2. Calculation of Normal profit

$$\text{Normal Profit} = \text{Average Capital employed} \times \frac{\text{Normal Rate of Return}}{100}$$

3. Calculation of average profit
4. Calculating Super Normal Profit:

$$\text{Super Normal Profit} = \text{Average Profit} - \text{Normal Profit}$$

Step 5: Goodwill calculation by the following formula:

$$\text{Goodwill} = \text{Super Profit} \times \frac{100}{\text{Normal Rate Return}}$$

4. If it is agreed that the capital of all the partners be proportionate to the new profit sharing ratio, how will you work out the new capital of each partner? Give examples and state how necessary adjustments will be made.

When a new partner is admitted to the firm, the capital of all partners must be determined using new profit sharing ratio. In such cases new capital of each partner is determined and is dependent on the following instances:

1. New partner's capital is given
2. Firm's total capital is given

1) New partner's capital is given

It involves the following steps

1. Calculation of total capital of firm based on the new partners' capital
2. Divide total capital of the firm by individual share of partner's profits to determine each partner's new capital
3. After posting adjustments determine each partner's capital balance
4. The capital determined previously is written in Partners Capital account on the credit side
5. Calculation of surplus or deficit. If new capital is more than the old share, then it needs to be contributed by old partners and is termed deficit and if new capital is less than old capital, it is called surplus and the difference is paid to old partners.

Let us understand the above steps with the help of an example.

A & B are partners in business who share profits and losses equally. They agree to admit C for $\frac{1}{3}$ rd share in profit. C brings ₹ 1, 00,000 as capital. A and B have old capital of ₹ 80,000 and ₹ 60,000 respectively, at the time admission of C.

1. The total capital of the new firm on the basis of C = $1, 00, 000 \times \frac{3}{1} = 3, 00, 000$

2. A's new capital = $3, 00, 000 \times \frac{1}{3} = 1, 00, 000$

B's share in new firm = $3, 00, 000 \times \frac{1}{3} = 1, 00, 000$

Step 3:

	A	B
New Capital	100,000	100,000
Less: Existing Capital	(80,000)	(60,000)
Withdrawal (deposit)	(20,000)	(40,000)

So both A and B need to pay 20,000 and 40,000 more as share for their new capital.

2) When new firms' total capital is known:

When new partner's capital is not mentioned, then new capital is determined based on the total capital of the firm on a proportionate basis. The amount that is determined has to be brought in by the new partner as capital. Following steps are taken to determine the new partners' capital:

1. Finding the total old capital of the existing partners after performing all adjustments.
2. Finding total capital of the new firm by multiplying old capital of existing partners with the reciprocal of old partners total share.

$$\text{Total Capital of New Firm} = \text{Total Capital of the Old Partners} \\ \times \text{Reciprocal of the Combined New Share of the Old Partners}$$

3. The new capital of each partner is determined on the basis of total capital calculated which is multiplying new profit ratio with the total capital, individually for all partners. Here is an example to help understand the concept.

Ram and Shyam are partners in a firm sharing profit and loss equally. They agree to admit Anil for 1/3rd share in profit and decided to share future profit and loss equally. X's capital is ₹ 1, 00,000 and Y's capital is ₹ 50,000. Z brings sufficient capital for his share in profit.

$$1. \text{ Old Capital} = ₹ 1, 00,000 + 50,000 = ₹ 1, 50,000$$

2. Calculation of total capital

$$\text{Total Capital of New Firm} = \text{Total Capital of the Old Partners} \\ \times \text{Reciprocal of the Combined New Share of the Old Partners}$$

$$\text{Total Capital of New Firm} = 1, 50, 000 \times \frac{3}{2} = 2, 25, 000$$

3. New Partners Capital

$$\text{Ram's capital} = 2, 25,000 \times \frac{3}{1} = 75,000$$

$$\text{Shyam's capital} = 2, 25, 000 \times \frac{3}{1} = 75,000$$

$$\text{Anil's Capital: } 2, 25,000 \times \frac{3}{1} = 75,000$$

5. Explain how will you deal with goodwill when new partner is not in a position to bring his share of goodwill in cash?

The situation in which a new partner is unable to bring his share of goodwill in cash, the goodwill account gets adjusted through Old Partners account. New partners' capital account is debited with the share of goodwill and the same gets credited to Old Partner's account.

New Partner's Capital A/c

Dr.

To Old Partners' Capital A/c

(New Partner account debited)

Note: According to Para 16 of Accounting Standard 10, Goodwill is recorded only when it is any transaction equivalent to money or money's worth. It is a mandatory practice that is followed.

6. Explain various methods for the treatment of goodwill on the admission of a new partner?

Goodwill is treated in the following ways on introduction of a new partner:

1. Premium Method
2. Revaluation Method

When a new partner pays the share of goodwill in the form of cash, it is called as premium method. There can be two scenarios:

1. New partners pays directly to old partners
2. Partner brings goodwill in form of cash and it is retained in the business.

The corresponding entries are:

- (i) When goodwill brought in cash by new partner

Cash/Bank A/c Dr.

To Premium for Goodwill A/c

(Amount of goodwill brought in by new partner)

(ii) When goodwill is retained by business:

Premium for Goodwill A/c Dr

To Sacrificing Partners' Capital A/c

(Goodwill brought by new partner distributed among old partners as per the sharing ratio)

Revaluation Method: Situations when new partner is unable to bring goodwill in form of cash

New Partner's Capital A/c Dr. (Goodwill amount not brought by new partner)

To Old Partners' Capital A/c

(Goodwill of new partner distributed to old partners as per their sharing ratio)

Note: According to Para 16 of Accounting Standard 10, Goodwill is recorded only when it is any transaction equivalent to money or money's worth. It is a mandatory practice that is followed.

7. How will you deal with the accumulated profit and losses and reserves on the admission of a new partner?

A new partner is not entitled to bear the losses or enjoy the profits of a previous business. Hence, when a new partner is added to the firm, the accumulated profits or losses, reserves need to be distributed to current partners (partners of old firm) in their profit sharing ratio.

Treatment of accumulated losses, profits and reserve

Profit and Loss A/C Dr.

General Reserve A/C Dr.

Contingency Reserve A/C Dr.

When losses accumulate over a period.

For Profits and losses

Deferred Advertising expense Dr.

(Losses accumulated shared to old partners as per sharing ratio)

8. At what figures the value of Liabilities and Assets appear in the books of the firm after revaluation has been done? Show with the help of an imaginary balance sheet.

After revaluation has been done, the Liabilities and Assets appear at their current market values in the Balance Sheet of the reconstituted firm. This can be better explained with the help of the below explained example.

Anil & Bijay shares profit and loss equally.

Balance Sheet of A and B as on April 01, 2019

Liabilities	Amount ₹	Assets	Amount ₹
Sundry Creditors	1,00,000	Cash in Hand	8,000
Capital Accounts		Cash at Bank	1,78,000
Anil 1,50,000		Debtors	40,000
Bijay 1,50,000	3,00,000	Stock	36,000
		Furniture	38,000
		Plant and Machinery	1,00,000
	4,00,000		4,00,000

- 1) On that date Chetan is admitted as new partner for 1/3rd share and offers 2,00,000 as capital.
- 2) Value of stocks increased by ₹ 7,000.
- 3) A ₹ 2,000 provision has been created against Debtors.
- 4) ₹ 35,000 value obtained after revaluing furniture.
- 5) A machinery costing ₹ 100,000 purchased is not recorded in books.
- 6) Outstanding rent ₹ 2,000.

Prepare Revaluation Account, Partners' Capital Account, Cash Account and Balance Sheet.

Revaluation Account

Dr.			Cr.		
Particular	Amount ₹		Particular	Amount ₹	
Rent Outstanding A/c	2,000		Stock	7,000	
Provision for Debtors	2,000		Machinery	100,000	
Furniture	35,000				
Profit transferred:					
Anil's Capital A/c	50,000				
Bijay's Capital A/c	50,000				
	100,000				
	107,000			107,000	
	107,000			107,000	

Anil's Capital Account

Dr.				Cr.			
Date	Particular	J.F.	Amount ₹	Date	Particular	J.F.	Amount ₹
	Balance c/d		2,00,000		Balance b/d		150,000
			2,00,000		Revaluation A/c		50,000
			2,00,000				2,00,000

Bijay's Capital Account

Dr.				Cr.			
Date	Particular	J.F.	Amount ₹	Date	Particular	J.F.	Amount ₹
	Balance c/d		2,00,000		Balance b/d		150,000
			2,00,000		Revaluation A/c		50,000
			2,00,000				2,00,000

Chetan's Capital Account

Dr.				Cr.			
Date	Particular	J.F.	Amount ₹	Date	Particular	J.F.	Amount ₹
	Balance c/d		2,00,000		Cash A/c		2,00,000
			2,00,000				2,00,000
			2,00,000				2,00,000

Cash Account

Dr.				Cr.			
Date	Particular	J.F.	Amount ₹	Date	Particular	J.F.	Amount ₹
	Balance b/d		8,000		Balance c/d		2,08,000
	Chetan's Capital A/c		2,00,000				
			2,08,000				2,08,000

Balance Sheet of Anil, Bijay & Chetan as at April

Liabilities	Amount ₹	Assets	Amount ₹
Sundry Creditors	1,00,000	Cash in hand	2,08,000
Rent Outstanding	2,000	Cash at Bank	178,000
		Debtors	40,000
		Less: Provision	2,000
Capital Account			38,000
Anil	2,00,000	Stock	43,000
Bijay	2,00,000	Furniture	35,000
Chetan	2,00,000	Plant and Machinery	2,00,000
	7,02,000		7,02,000

Numerical Question for NCERT Accountancy Solutions Class 12 Part 1 Chapter 3

1. A and B were partners in a firm sharing profits and losses in the ratio of 3:2. They admit C into the partnership with $\frac{1}{6}$ share in the profits. Calculate the new profit sharing ratio?

The solution is as follows:

$$\begin{array}{l} \text{A} \quad \quad : \quad \text{B} \\ \text{Old Ratio} \quad 3 \quad : \quad 2 \\ \\ \text{OR} \\ \quad \quad \quad \frac{3}{5} \quad : \quad \frac{2}{5} \end{array}$$

C admits for $\frac{1}{6}$ share of new profit in new firm.

Let new firm profit = 1

Remaining share of A and B in the new firm = 1 - C's share

$$\begin{aligned} &= 1 - \frac{1}{6} \\ &= \frac{5}{6} \end{aligned}$$

New Ratio = Old Ratio \times Remaining Share of A and B

$$\begin{aligned} \text{A} &= \frac{3}{5} \times \frac{5}{6} \\ &= \frac{15}{30} \end{aligned}$$

$$\begin{aligned} \text{B} &= \frac{2}{5} \times \frac{5}{6} \\ &= \frac{10}{30} \end{aligned}$$

$$\begin{aligned} & \quad \quad \quad A \quad : \quad B \quad : \quad C \\ \text{New Ratio} &= \frac{15}{30} \quad \frac{10}{30} \quad : \quad \frac{1}{6} \\ &= \frac{15 : 10 : 5}{30} \\ &= 15 : 10 : 5 \\ &= 3 : 2 : 1 \end{aligned}$$

2. A, B, C were partners in a firm sharing profits in 3:2:1 ratio. They admitted D for 10% profits. Calculate the new profit sharing ratio?

The solution is as follows:

$$\begin{aligned} & \quad \quad \quad A : B : C \\ \text{Old Ratio} &= 3 : 2 : 1 \\ &= \frac{3}{6} : \frac{2}{6} : \frac{1}{6} \end{aligned}$$

D admits for $\frac{10}{100}$ share in the new firm

Let new firm profit = 1

Remaining share of A, B and C in new firm = 1 – D's share

$$\begin{aligned} &= 1 - \frac{10}{100} \\ &= \frac{90}{100} \\ &= \frac{9}{10} \end{aligned}$$

New Ratio = Old Ratio × Remaining Share of A, B and C in new firm

$$A = \frac{3}{6} \times \frac{9}{10}$$

$$= \frac{27}{60}$$

$$B = \frac{2}{6} \times \frac{9}{10}$$

$$= \frac{18}{60}$$

$$C = \frac{1}{6} \times \frac{9}{10}$$

$$= \frac{9}{60}$$

A : B : C : D
New Ratio = $\frac{27}{60} : \frac{18}{60} : \frac{9}{60} : \frac{1}{10} = \frac{27:18:9:6}{60}$
= 9 : 6 : 3 : 2

3. X and Y are partners sharing profits in 5:3 ratio admitted Z for 1/10 share which he acquired equally for X and Y. Calculate new profit sharing ratio?

The solution is as follows:

Old Ratio =	A:	B
	5:	3
	=	$\frac{5}{8} :$
		$\frac{3}{8}$

Z admits for $\frac{1}{10}$ share in the new firm

X and Y each sacrifice = $\frac{1}{10} \times \frac{1}{2} = \frac{1}{20}$

New Ratio = Old Ratio - Sacrificing Ratio

$$X's = \frac{5}{8} - \frac{1}{20} = \frac{25-2}{40} = \frac{23}{40}$$

$$Y's = \frac{3}{8} - \frac{1}{20} = \frac{15-2}{40} = \frac{13}{40}$$

	A:	B	:C
New Ratio=	$\frac{23}{40} :$	$\frac{13}{40} :$	$\frac{1}{10}$

$$= \frac{23:13:4}{40}$$

$$= 23 : 13 : 4$$

4. A, B and C are partners sharing profits in 2:2:1 ratio admitted D for $\frac{1}{8}$ share which he acquired entirely from A. Calculate new profit sharing ratio?

The solution for this question is as follows:

$$\begin{aligned} & \text{A : B : C} \\ \text{Old Ratio} &= 2 : 2 : 1 \\ &= \frac{2}{5} : \frac{2}{5} : \frac{1}{5} \end{aligned}$$

D admits for $\frac{1}{8}$ share in new firm, which he takes from A.

Here only A will sacrifice.

New Ratio = Old Ratio – Sacrificing Ratio

$$\begin{aligned} \text{A} &= \frac{2}{5} - \frac{1}{8} \\ &= \frac{16-5}{40} \\ &= \frac{11}{40} \end{aligned}$$

$$\begin{aligned} & \text{A : B : C : D} \\ \text{New Ratio} &= \frac{11}{40} : \frac{2}{5} : \frac{1}{5} : \frac{1}{8} = \frac{11:16:8:5}{40} \\ &= 11:16:8:5 \end{aligned}$$

5. P and Q are partners sharing profits in 2:1 ratio. They admitted R into partnership giving him $\frac{1}{5}$ share which he acquired from P and Q in 1:2 ratio. Calculate new profit sharing ratio?

The solution for this question is as follows:

$$\begin{aligned} \text{P : Q} \\ \text{Old Ratio} &= 2 : 1 \\ &= \frac{2}{3} : \frac{1}{3} \end{aligned}$$

R admits for $\frac{1}{5}$ share in the new firm which he takes from $\frac{1}{3}$ from P and $\frac{2}{3}$ from Q.

$$\begin{aligned} \text{P's sacrifice} &= \text{R's share} \times \frac{1}{3} \\ &= \frac{1}{5} \times \frac{1}{3} = \frac{1}{15} \end{aligned}$$

$$\begin{aligned} \text{Q's sacrifice} &= \text{R's share} \times \frac{2}{3} \\ &= \frac{1}{5} \times \frac{2}{3} = \frac{2}{15} \end{aligned}$$

New Ratio = Old Ratio – Sacrificing Ratio

$$\begin{aligned} \text{P} &= \frac{2}{3} - \frac{1}{15} \\ &= \frac{10-1}{15} = \frac{9}{15} \end{aligned}$$

$$\begin{aligned} \text{Q} &= \frac{1}{3} - \frac{2}{15} \\ &= \frac{5-2}{15} = \frac{3}{15} \end{aligned}$$

$$\begin{aligned} \text{New Ratio} &= \text{P} : \text{Q} : \text{R} \\ &= \frac{9}{15} : \frac{3}{15} : \frac{1}{5} \\ &= \frac{9:3:3}{15} \\ &= 3:1:1 \end{aligned}$$

6. A, B and C are partners sharing profits in 3:2:2 ratio. They admitted D as a new partner for $\frac{1}{5}$ share which he acquired from A, B and C in 2:2:1 ratio respectively. Calculate new profit sharing ratio?

The solution for this question is as follows:

$$\begin{aligned} & \text{A : B : C} \\ \text{Old Ratio} &= 3 : 2 : 2 \\ &= \frac{3}{7} : \frac{2}{7} : \frac{2}{7} \end{aligned}$$

D admits for $\frac{1}{5}$ share in the new firm which he takes $\frac{1}{5}$ in the ratio 2:2:1 from A, B and C.

$$\begin{aligned} \text{A's sacrifice} &= \text{D's share} \times \frac{2}{5} \\ &= \frac{1}{5} \times \frac{2}{5} = \frac{2}{25} \end{aligned}$$

$$\begin{aligned} \text{B's sacrifice} &= \text{D's share} \times \frac{2}{5} \\ &= \frac{1}{5} \times \frac{2}{5} = \frac{2}{25} \end{aligned}$$

$$\begin{aligned} \text{C's sacrifice} &= \text{D's share} \times \frac{1}{5} \\ &= \frac{1}{5} \times \frac{1}{5} = \frac{1}{25} \end{aligned}$$

New Ratio = Old Ratio – Sacrificing Ratio

$$A = \frac{3}{5} - \frac{2}{7} = \frac{21-10}{35}$$

$$= \frac{11}{35}$$

$$B = \frac{2}{5} - \frac{1}{7} = \frac{14-5}{35}$$

$$= \frac{9}{35}$$

$$A = \frac{3}{7} - \frac{2}{25}$$

$$= \frac{75-14}{175} = \frac{61}{175}$$

$$B = \frac{2}{7} - \frac{2}{25}$$

$$= \frac{50-14}{175} = \frac{36}{175}$$

$$C = \frac{2}{7} - \frac{1}{25}$$

$$= \frac{50-7}{175} = \frac{43}{175}$$

A : B : C : D

$$\text{New Ratio} = \frac{61}{175} : \frac{36}{175} : \frac{43}{175} : \frac{1}{5}$$

$$= \frac{61:36:43:35}{175}$$

$$= 61:36:43:35$$

7. A and B were partners in a firm sharing profits in 3:2 ratio. They admitted C for $\frac{3}{7}$ share which he took $\frac{2}{7}$ from A and $\frac{1}{7}$ from B. Calculate new profit sharing ratio?

The solution for this question is as follows:

A : B

$$\text{Old Ratio} = 3 : 2$$

$$= \frac{3}{5} : \frac{2}{5}$$

C admitted for $\frac{3}{7}$ share in the new firm

$$\text{A's sacrifice} = \frac{2}{7}$$

$$\text{B's sacrifice} = \frac{1}{7}$$

New Ratio = Old Ratio – Sacrificing Ratio

$$\begin{aligned}
 & \text{A : B : C} \\
 \text{New Ratio} &= \frac{11}{35} : \frac{9}{35} : \frac{3}{7} \\
 &= \frac{11:9:15}{35} \\
 &= 11:9:15
 \end{aligned}$$

8. A, B and C were partners in a firm sharing profits in 3:3:2 ratio. They admitted D as a new partner for $\frac{4}{7}$ profit. D acquired his share $\frac{2}{7}$ from A. $\frac{1}{7}$ from B and $\frac{1}{7}$ from C. Calculate new profit sharing ratio?

The solution for this question is as follows:

$$\begin{aligned}
 & \text{A : B : C} \\
 \text{Old Ratio} &= 3 : 3 : 2 \\
 &= \frac{3}{8} : \frac{3}{8} : \frac{2}{8}
 \end{aligned}$$

D admitted for $\frac{4}{7}$ share of profit in new firm.

D's share = A's sacrifice + B's Sacrifice + C's sacrifice

$$\frac{4}{7} = \frac{2}{7} + \frac{1}{7} + \frac{1}{7}$$

New Ratio = Old Ratio – Sacrificing Ratio

$$\begin{aligned}
 \text{A} &= \frac{3}{8} - \frac{2}{7} \\
 &= \frac{21-16}{56} = \frac{5}{56}
 \end{aligned}$$

$$\begin{aligned}
 \text{B} &= \frac{3}{8} - \frac{1}{7} \\
 &= \frac{21-8}{56} = \frac{13}{56}
 \end{aligned}$$

$$\begin{aligned}
 \text{C} &= \frac{2}{8} - \frac{1}{7} \\
 &= \frac{14-8}{56} = \frac{6}{56}
 \end{aligned}$$

$$\begin{aligned}
 & A : B : C : D \\
 \text{New Ratio} &= \frac{5}{56} : \frac{13}{56} : \frac{6}{56} : \frac{4}{7} \\
 &= \frac{5:13:6:32}{56} \\
 &= 5:13:6:32
 \end{aligned}$$

9. Radha and Rukmani are partners in a firm sharing profits in 3:2 ratio. They admitted Gopi as a new partner. Radha surrendered $\frac{1}{3}$ of her share in favour of Gopi and Rukmani surrendered $\frac{1}{4}$ of her share in favour of Gopi. Calculate new profit sharing ratio?

Radha : Rukmani		
Old Ratio =	3	: 2
=	$\frac{3}{5}$: $\frac{2}{5}$

Radha surrendered in favour of Gopi = $\frac{1}{3}$ of his share

Rukmani surrendered in favour of Gopi = $\frac{1}{4}$ of his share

Sacrificing Ratio = Old Ratio \times Surrender Ratio

$$\text{Radha} = \frac{3}{5} \times \frac{1}{3} = \frac{1}{5}$$

$$\text{Rukmani} = \frac{2}{5} \times \frac{1}{4} = \frac{1}{10}$$

New Ratio = Old Ratio – Sacrificing Ratio

$$\text{Radha} = \frac{3}{5} - \frac{1}{5} = \frac{2}{5}$$

$$\text{Rukmani} = \frac{2}{5} - \frac{1}{10} = \frac{4-1}{10} = \frac{3}{10}$$

Gopi's Share = Radha's Sacrificing Ratio + Rukmani's Sacrificing Ratio

$$= \frac{1}{5} + \frac{1}{10} = \frac{2+1}{10}$$

$$= \frac{3}{10}$$

	Radha	:	Rukmani	:	Gopi
New Ratio =	$\frac{2}{5}$:	$\frac{3}{10}$:	$\frac{3}{10}$
	$= \frac{4:3:3}{10}$				
	$= 4:3:3$				

10. Singh, Gupta and Khan are partners in a firm sharing profits in 3:2:3 ratio. They admitted Jain as a new partner. Singh surrendered 1/3 of his share in favour of Jain: Gupta surrendered 1/4 of his share in favour of Jain and Khan surrendered 1/5 in favour of Jain. Calculate new profit sharing ratio?

The solution for this question is as follows:

	Singh	:	Gupta	:	Khan
Old Ratio =	3	:	2	:	3
	$= \frac{3}{8}$:	$\frac{2}{8}$:	$\frac{3}{8}$

Singh Surrender $= \frac{1}{3}$ of his share

Gupta Surrender $= \frac{1}{4}$ of his share

Khan Surrender $= \frac{1}{5}$ of his share

Sacrificing Ratio = Old Ratio × Surrender Ratio

Singh's $= \frac{3}{8} \times \frac{1}{3} = \frac{3}{24}$

Gupta's $= \frac{2}{8} \times \frac{1}{4} = \frac{2}{32}$

$$\text{Khan's} = \frac{3}{8} \times \frac{1}{5} = \frac{3}{40}$$

New Ratio = Old Ratio – Sacrificing Ratio

$$\text{Singh's} = \frac{3}{8} - \frac{3}{24} = \frac{9-3}{24} = \frac{6}{24}$$

$$\text{Gupta's} = \frac{2}{8} - \frac{2}{32} = \frac{8-2}{32} = \frac{6}{32}$$

$$\text{Khan's} = \frac{3}{8} - \frac{3}{40} = \frac{15-3}{40} = \frac{12}{40}$$

	Singh Sacrifice	+	Gupta's Sacrifice	+	Khan's Sacrifice
Jain's Share =	$\frac{3}{24}$	+	$\frac{2}{32}$	+	$\frac{3}{40}$
	$= \frac{60+30+36}{480}$				
	$= \frac{21}{80}$				

	Singh	:	Gupta	:	Khan	:	Jain
New Ratio =	$\frac{6}{24}$:	$\frac{6}{32}$:	$\frac{12}{40}$:	$\frac{21}{80}$
	$= \frac{120:90:144:126}{480}$						
	$= 20:15:24:21$						

11. Sandeep and Navdeep are partners in a firm sharing profits in 5:3 ratio. They admit C into the firm and the new profit sharing ratio was agreed at 4:2:1. Calculate the sacrificing ratio?

The solution for this question is as follows

	Sandeep : Navdeep
Old Ratio =	5 : 3
	$= \frac{5}{8} : \frac{3}{8}$

$$\begin{aligned} & \text{Sandeep : Navdeep : C} \\ \text{New Ratio} &= 4 : 2 : 1 \\ &= \frac{4}{7} : \frac{2}{7} : \frac{1}{7} \end{aligned}$$

Sacrificing Ratio = Old Ratio – New Ratio

$$\text{Sandeep} = \frac{5}{8} - \frac{4}{7} = \frac{35-32}{56} = \frac{3}{56}$$

$$\text{Navdeep} = \frac{3}{8} - \frac{2}{7} = \frac{21-16}{56} = \frac{5}{56}$$

	Sandeep	Navdeep
Sacrificing Ratio =	$\frac{3}{56}$:
	3	:
	56	5

12. Rao and Swami are partners in a firm sharing profits and losses in 3:2 ratio. They admit Ravi as a new partner for 1/8 share in the profits. The new profit sharing ratio between Rao and Swami is 4:3. Calculate new profit sharing ratio and sacrificing ratio?

The solution for this question is as follows

$$\begin{array}{l} \text{Rao : Swami} \\ \text{Old Ratio} = 3 : 2 \end{array}$$

Ravi admits for $\frac{1}{8}$ share of profit in the new firm.

Let the New Firm Profit = 1

Combined share of Rao and Swami in the new firm

= 1 – Ravi's share of profit

$$= 1 - \frac{1}{8}$$

$$= \frac{7}{8}$$

New Ratio = Combined Share of Rao and Swami × Proportion of Rao and Swami in the combined share

$$\text{Rao} = \frac{7}{8} \times \frac{4}{7} = \frac{28}{56}$$

$$\text{Swami} = \frac{7}{8} \times \frac{3}{7} = \frac{21}{56}$$

	Rao	:	Swami	:	C
New Ratio =	$\frac{28}{56}$:	$\frac{21}{56}$:	$\frac{1}{8}$

$$\frac{28:21:7}{56}$$

4:3:1

Sacrificing Ratio = Old Ratio – New Ratio

$$\begin{aligned} \text{Rao} &= \frac{3}{5} - \frac{4}{8} = \frac{24-20}{40} \\ &= \frac{4}{40} \end{aligned}$$

$$\begin{aligned} \text{Swami} &= \frac{2}{5} - \frac{3}{8} = \frac{16-15}{40} \\ &= \frac{1}{40} \end{aligned}$$

Sacrificing Ratio = Rao	Swami
$= \frac{4}{40}$	$: \frac{1}{40}$
$= 4:1$	

13. Compute the value of goodwill on the basis of four years' purchase of the average profits based on the last five years? The profits for the last five years were as follows:

	₹
2013	40,000
2014	50,000
2015	60,000
2016	50,000

2017 60,000

$$\text{Average Profit} = \frac{\text{sum of given year's profit}}{\text{number of given years}}$$

Year	Profit
2013	40,000
2014	50,000
2015	60,000
2016	50,000
2017	60,000
Sum of 5 years profit	2,60,000

$$\text{Average Profit} = \frac{2,60,000}{5} = 52,000$$

$$\text{Goodwill} = \text{Average Profit} \times \text{Number of Year's Purchases} = 52,000 \times 4 = ₹ 2, 08,000$$

14. Capital employed in a business is ₹. 2, 00,000. The normal rate of return on capital employed is 15%. During the year 2015 the firm earned a profit of ₹. 48,000. Calculate goodwill on the basis of 3 years purchase of super profit?

The solution for this question is as follows

Capital Employed = ₹ 2, 00,000

Actual Profit = 48,000

Normal Rate of Return = 15%

$$\text{Normal Profit} = \text{Capital Employed} \times \frac{\text{Normal Rate of Return}}{100}$$

$$= 2,00,000 \times \frac{5}{100}$$

$$= ₹ 30,000$$

Super profit = Actual Profit – Normal Profit

$$= 48,000 - 30,000$$

$$= ₹ 18,000$$

Goodwill = Super Profit × Number of Years Purchase

$$= 18,000 \times 3$$

$$= ₹ 54,000$$

15. The books of Ram and Bharat showed that the capital employed on 31.12.2016 was ₹. 5,00,000 and the profits for the last 5 years : 2015 ₹. 40,000; 2014 ₹. 50,000; 2013 ₹. 55,000; 2012 ₹. 70,000 and 2011 ₹. 85,000. Calculate the value of goodwill on the basis of 3 years purchase of the average super profits of the last 5 years assuming that the normal rate of return is 10%?

The solution for this question is as follows:

$$\text{Average Actual Profit} = \frac{\text{sum of given year profit}}{\text{number of given years}}$$

Year	Profit
2015	40,000
2014	50,000
2013	55,000
2012	70,000
2011	85,000
Sum of 5 years profit	3,00,000

$$\text{Average Actual Profit} = \frac{3,00,000}{5} = ₹ 60,000$$

$$\text{Normal Profit} = \text{Capital Employed} \times \frac{\text{Normal Rate of Return}}{100}$$

$$= 5,00,000 \times \frac{10}{100}$$
$$= ₹ 50,000$$

$$\text{Average Super Profit} = \text{Average Actual Profit} - \text{Normal Profit}$$
$$= 60,000 - 50,000$$
$$= ₹ 10,000$$

$$\text{Goodwill} = \text{Average Super Profit} \times \text{Number of year purchase}$$
$$= 10,000 \times 3$$
$$= ₹ 30,000$$

16. Rajan and Rajani are partners in a firm. Their capitals were Rajan ₹. 3, 00,000; Rajani ₹. 2, 00,000. During the year 2015 the firm earned a profit of ₹. 1, 50,000. Calculate the value of goodwill of the firm assuming that the normal rate of return is 20%?

The solution for this question is as follows

Rajan's Capital	3,00,000
Rajni's Capital	2,00,000
Total Capital Employed	5,00,000

Normal Rate of Return = 20%

$$\text{Capitalised Valued} = \text{Actual Profit} \times \frac{100}{\text{Normal Rate of Return}}$$

$$= 1,50,000 \times \frac{100}{20}$$
$$= ₹ 7,50,000$$

$$\text{Goodwill} = \text{Capitalised Value} - \text{Capital Employed}$$
$$= 7,50,000 - 5,00,000$$

$$= ₹ 2,50,000$$

Alternative Method

$$\text{Normal Profit} = \text{Capital Employed} \times \frac{\text{Normal Rate of Return}}{100}$$

$$= 5,00,000 \times \frac{20}{100}$$

$$= ₹ 1,00,000$$

$$\text{Super profit} = \text{Actual Profit} - \text{Normal Profit}$$

$$= 1,50,000 - 1,00,000$$

$$= ₹ 50,000$$

$$\text{Goodwill} = \text{Super Profit} \times \frac{100}{\text{Normal Rate of Return}}$$

$$= 50,000 \times \frac{100}{20}$$

$$= ₹ 2,50,000$$

17. A business has earned average profits of ₹. 1, 00,000 during the last few years. Find out the value of goodwill by capitalisation method, given that the assets of the business are ₹. 10, 00,000 and its external liabilities are ₹. 1, 80,000. The normal rate of return is 10%?

The solution for this question is as follows

$$\text{Capital Employed} = \text{Assets} - \text{External Liabilities}$$

$$= 10,00,000 - 1,80,000$$

$$= ₹ 8,20,000$$

$$\text{Normal Profit} = \text{Capital Employed} \times \frac{\text{Normal Rate of Return}}{100}$$

$$= 8,20,000 \times \frac{10}{100}$$

$$= \text{Rs } 82,000$$

Super Profit = Actual Profit – Normal Profit

$$= 1,00,000 - 82,000$$

$$= \text{Rs } 18,000$$

$$\text{Goodwill} = \text{Super Profit} \times \frac{100}{\text{Normal Rate of Return}}$$

$$= 18,000 \times \frac{100}{10}$$

$$= \text{Rs } 1,80,000$$

Alternative Method

$$\text{Capitalised Value} = \text{Actual Profit} \times \frac{100}{\text{Normal Rate of Return}}$$

$$\text{Capitalised value} = 1,00,000 \times \frac{100}{10}$$

$$= \text{Rs } 1,00,000$$

Goodwill = Capitalised Value – Capital Employed

$$= 10,00,000 - 8,20,000$$

$$= \text{Rs } 1,80,000$$

18. Verma and Sharma are partners in a firm sharing profits and losses in the ratio of 5:3. They admitted Ghosh as a new partner for 1/5 share of profits. Ghosh is to bring in ₹. 20,000 as capital and ₹. 4,000 as his share of goodwill premium. Give the necessary journal entries:

a) When the amount of goodwill is retained in the business.

b) When the amount of goodwill is fully withdrawn.

c) When 50% of the amount of goodwill is withdrawn.

d) When goodwill is paid privately.

The solution for this question is as follows

Journal Entries

S.No.	Particulars	L.F.	Debit Amount ₹	Credit Amount ₹
Case (a)	Cash A/c	Dr.	24,000	
	To Ghosh's Capital A/c			20,000
	To Premium for Goodwill A/c			4,000
	(Capital and Goodwill his share brought by Ghosh)			
	Premium for Goodwill A/c	Dr.	4,000	
	To Verma's Capital A/c			2,500
To Sharma's Capital A/c			1,500	
(Goodwill brought by Ghosh credited to Old Partners in Sacrificing ratio)				
Case (b)	Cash A/c	Dr.	24,000	
	To Ghosh Capital A/c			20,000
	To Premium for Goodwill A/c			4,000
	(Capital and Goodwill brought by Ghosh for (1/5) share of profit)			
	Premium for Goodwill A/c	Dr.	4,000	
	To Verma's Capital A/c			2,500
	To Sharma's Capital A/c			1,500
	(Goodwill brought by Ghosh credited in Old Partner in Sacrificing Ratio)			
	Verma's Capital A/c	Dr.	2,500	
Sharma's Capital A/c	Dr.	1,500		
To Cash A/c			4,000	

	(Amount of Premium for Goodwill withdrawn by Old Partners)			
Case (c)	Cash A/c	Dr.	24,000	
	To Ghosh's Capital A/c			20,000
	To Premium for Goodwill A/c			4,000
	(Capital and Goodwill brought by Ghosh for (1/5) share of profit)			
	Premium for Goodwill A/c	Dr.	4,000	
	To Verma's Capital A/c			2,500
	To Sharma's Capital A/c			1,500
	(Premium for Goodwill credited to Old Partner's Capital Account in sacrificing ratio)			
	Verma's Capital A/c	Dr.	1,250	
	Sharma's Capital A/c		750	
	To Cash A/c			2,000
	(Half of the amount of premium for goodwill withdrawn by Old partners)			
Case (d)	No entry: Goodwill was not brought in to firm			

19. A and B are partners in a firm sharing profits and losses in the ratio of 3:2. They decide to admit C into partnership with 1/4 share in profits. C will bring in ₹. 30,000 for capital and the requisite amount of goodwill premium in cash. The goodwill of the firm is valued at ₹, 20,000. The new profit sharing ratio is 2:1:1. A and B withdraw their share of goodwill. Give necessary journal entries?

The solution for this question is as follows

Journal Entries

Date	Particulars	L.F.	Debit Amount ₹	Credit Amount ₹
	Cash A/c	Dr.	35,000	
	To C's Capital A/c			30,000
	To Premium for Goodwill A/c			5,000
	(Amount of Capital and Share of Goodwill brought by C)			

Premium for Goodwill A/c To A's Capital A/c To B's Capital A/c (C's Share of Goodwill credited to A and B in 2:3, Sacrificing Ratio)	Dr.	5,000		2,000 3,000
A's Capital A/c B's Capital A/c To Cash A/c (Share of Goodwill withdrawn by Old Partners)	Dr. Dr.	2,000 3,000		5,000

Sacrificing Ratio = Old Ratio – New Ratio

$$A = \frac{3}{5} - \frac{2}{4}$$

$$= \frac{12-10}{20} = \frac{2}{20}$$

$$B = \frac{2}{5} - \frac{1}{4}$$

$$= \frac{8-5}{20} = \frac{3}{20}$$

A	B	
Sacrificing Ratio = $\frac{2}{20}$:	$\frac{3}{20}$
2	:	3

Goodwill of the firm = Rs 20,000

$$\text{C's share of Goodwill} = 20,000 \times \frac{1}{4} = \text{Rs } 5,000$$

$$\text{A will receive} = 5,000 \times \frac{2}{5} = 2,000$$

$$\text{Or } 20,000 \times \frac{2}{20} = 2,000$$

$$\text{B will receive} = 5,000 \times \frac{3}{5} = 3,000$$

Or $20,000 \times \frac{3}{20} = 3,000$

20. Arti and Bharti are partners in a firm sharing profits in 3:2 ratio, they admitted Sarthi for 1/4 share in the profits of the firm. Sarthi brings ₹. 50,000 for his capital and ₹. 10,000 for his 1/4 share of goodwill. Goodwill already appears in the books of Arti and Bharti at ₹. 5,000. the new profit sharing ratio between Arti, Bharti and Sarthi will be 2:1:1. Record the necessary journal entries in the books of the new firm?

The solution for this question is as follows

Journal Entries

Date	Particulars	L.F.	Debit Amount ₹	Credit Amount ₹
	Arti's Capital A/c	Dr.	3,000	
	Bharti's Capital A/c	Dr.	2,000	
	To Goodwill A/c			5,000
	(Goodwill written off)			
	Cash A/c	Dr.	60,000	
	To Sarthi's Capital A/c			50,000
	To Premium for Goodwill A/c			10,000
	(Amount of capital and share of goodwill brought by Sarthi)			
	Premium for Goodwill A/c	Dr.	10,000	
	To Arti's Capital A/c			4,000
	To Bharti's Capital A/c			6,000
	(Premium for Goodwill credited Arti's Capital Account)			

	Arti	:	Bharti
Old Ratio	3	:	2

Sarthi admitted for $\frac{1}{4}$ share in new firm.

	Arti	:	Bharti	:	Sarathi
New Ratio	2	:	1	:	1

Sacrificing Ratio = Old Ratio – New Ratio

$$\text{Arti} = \frac{3}{5} - \frac{2}{4} = \frac{2}{20}$$

$$\text{Bharti} = \frac{2}{5} - \frac{1}{4} = \frac{3}{20}$$

$$\text{Arti will receive} = 10,000 \times \frac{2}{5} = 4,000$$

$$\text{Bharti will receive} = 10,000 \times \frac{3}{5} = 6,000$$

21. X and Y are partners in a firm sharing profits and losses in 4:3 ratio. They admitted Z for 1/8 share. Z brought ₹. 20,000 for his capital and ₹. 7,000 for his 1/8 share of goodwill. Subsequently X, Y and Z decided to show goodwill in their books at ₹. 40,000. Show necessary journal entries in the books of X, Y and Z?

The solution for this question is as follows

Journal Entries

Date	Particulars	L.F.	Debit Amount ₹	Credit Amount ₹
	Cash A/c Dr.		27,000	
	To Z's Capital A/c			20,000
	To Premium for Goodwill A/c			7,000
	(Amount of Capital and his share of Goodwill brought by Z)			
	Premium for Goodwill A/c Dr.		7,000	
	To X's Capital A/c			4,000
	To Y's Capital A/c			3,000
	(Premium for Goodwill credit to Old Partners in Sacrificing Ratio)			

	<p>Goodwill ₹ 40,000 cannot be raised. According to AS-10 Goodwill can be shown in the book if money and money value is paid for it. Here no money or money value has been paid for Goodwill.</p>			
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22. Aditya and Balan are partners sharing profits and losses in 3:2 ratio. They admitted Christopher for 1/4 share in the profits. The new profit sharing ratio agreed was 2:1:1. Christopher brought ₹. 50,000 for his capital. His share of goodwill was agreed to at ₹. 15,000. Christopher could bring only ₹. 10,000 out of his share of goodwill. Record necessary journal entries in the books of the firm?

The solution for this question is as follows

Journal Entries

Date	Particulars	L.F.	Debit Amount ₹	Credit Amount ₹
	Cash A/c Dr. To Christopher's Capital A/c To Premium for Goodwill A/c (Amount of Capital and Premium for Goodwill brought by Christopher)		60,000	50,000 10,000
	Premium for Goodwill A/c Dr. Christopher's Capital A/c Dr. To Aditya's Capital A/c To Balan's Capital A/c (Goodwill Christopher's Share taken by Old Partner's in Sacrificing Ratio)		10,000 5,000	6,000 9,000

Sacrificing Ratio = Old Ratio – New Ratio

$$\text{Aditya} = \frac{3}{5} - \frac{2}{4} = \frac{12-10}{20} = \frac{2}{20}$$

$$\text{Balam} = \frac{2}{5} - \frac{1}{4} = \frac{8-5}{20} = \frac{3}{20}$$

$$\begin{aligned} \text{Sacrificing Ratio} &= \frac{2}{10} : \frac{3}{20} : \frac{2}{20} \\ &= 2:3 \end{aligned}$$

23. Amar and Samar were partners in a firm sharing profits and losses in 3:1 ratio. They admitted Kanwar for 1/4 share of profits. Kanwar could not bring his share of goodwill premium in cash. The Goodwill of the firm was valued at ₹. 80,000 on Kanwar's admission. Record necessary journal entry for goodwill on Kanwar's admission.

The solution for this question is as follows

	Amar	:	Samar
Old Ratio	3	:	1

Kanwar admitted for 1/4 share of profit.

Journal Entries

Date	Particulars	L.F.	Debit Amount ₹	Credit Amount ₹
	Kanwar's Capital A/c Dr. To Amar's Capital A/c 15,000 To Samar's Capital A/c 5,000 (Kanwar's share of goodwill charged from his capital account by Amar and Kanwar in sacrificing ratio)		20,000	

New Firm's Goodwill = ₹ 80,000

Kanwar's Share of Goodwill = 80,000 × (1/4) = 20,000

Kanwar's Goodwill will be taken by Amar and Samar in their sacrificing ratio here. Sacrificing Ratio will be equal to old ratio because new and sacrificing ratio is not given, if sacrificing and new ratio is not given it is assumed that old partners sacrificed in their old ratio.

24. Mohan Lal and Sohan Lal were partners in a firm sharing profits and losses in 3:2 ratio. They admitted Ram Lal for 1/4 share on 1.1.2013. It was agreed that goodwill of the firm will be valued at 3 years purchase of the average profits of last 4 years which were ₹. 50,000 for 2013, ₹. 60,000 for 2014, ₹. 90,000 for 2015 and

₹. 70,000 for 2016. Ram Lal did not bring his share of goodwill premium in cash. Record the necessary journal entries in the books of the firm on Ram Lal's admission when:

- a) Goodwill already appears in the books at ₹. 2, 02,500.
- b) Goodwill appears in the books at ₹. 2,500.
- c) Goodwill appears in the books at ₹. 2, 05,000.

The solution for this question is as follows:

Year	Profit
2013	50,000
2014	60,000
2015	90,000
2016	70,000
Sum of 4 years profit	2,70,000

$$\text{Average Profit} = \frac{2,70,000}{4} = ₹ 67,500$$

$$\text{Goodwill} = \text{Average Profit} \times \text{No. of Years Purchases} = 67,500 \times 3 = 2, 02,500$$

Ram Lal entered into the firm for 1/4 share of Profit.

$$\text{Ram Lal's share of goodwill} = 2, 02, 500 \times (1/4) = ₹ 50,625$$

Here sacrificing ratio of Mohan Lal and Sohan Lal will be equal to old ratio because new and sacrificing ratio is not given.

$$\text{Mohan Lal will get} = \text{Ram Lal's Share of Goodwill} \times (3/5) = 50,625 \times (3/5) = 10,125 \times 3 = ₹ 30,375$$

$$\text{Sohan Lal will} = \text{Ram Lal's Share of Goodwill} \times (1/5) = 50,625 \times (1/5) = ₹ 10,125 \times 2 = ₹ 20,250$$

Case (a)

Journal Entries

Date	Particulars	L.F.	Debit Amount ₹	Credit Amount ₹
	Mohan Lal's Capital A/c Dr.		1,21,500	
	Sohan Lal's Capital A/c Dr.		81,000	
	To Goodwill A/c			2,02,500
	(Goodwill appeared in the old firm written off)			
	Ramlal's Capital A/c Dr.		50,625	
	To Mohan Lal's Capital A/c			30,375
	To Sohan Lal's Capital A/c			20,250
	(Ram Lal's Shares of Goodwill charged from his account and Distributed between Mohan Lal and Sohan Lal in Sacrificing Ratio)			

Case (b)

Journal Entries

Date	Particulars	L.F.	Debit Amount ₹	Credit Amount ₹
	Mohan Lal's Capital A/c Dr.		1,500	
	Sohan Lal's Capital A/c Dr.		1,000	
	To Goodwill A/c			2,500
	(Goodwill already appeared in the books of firm written off in old ratio)			
	Ramlal's Capital A/c Dr.		50,625	
	To Mohan Lal's Capital A/c			30,375
	To Sohan Lal's Capital A/c			20,250
	(Ram Lal's Shares of Goodwill charged from his capital by Mohan Lal and Sohan Lal in sacrificing ratio)			

Case (c)

Journal Entries

Date	Particulars	L.F.	Debit Amount ₹	Credit Amount ₹
	Mohan Lal's Capital A/c Dr.		1,23,000	
	Sohan Lal's Capital A/c Dr.		82,000	
	To Ram Lal's Capital A/c			2,05,000
	(Goodwill already appeared in the books of firm written off in Old Ratio)			
	Ramlal's Capital A/c Dr.		50,625	
	To Mohan Lal's Capital A/c			30,375
	To Sohan Lal's Capital A/c			20,250
	(Ram Lal's Shares of Goodwill charged from his capital by Mohan Lal and Sohan Lal in sacrificing ratio)			

25. Rajesh and Mukesh are equal partners in a firm. They admit Hari into partnership and the new profit sharing ratio between Rajesh, Mukesh and Hari is 4:3:2. On Hari's admission goodwill of the firm is valued at ₹ 36,000. Hari is unable to bring his share of goodwill premium in cash. Rajesh, Mukesh and Hari decided not to show goodwill in their balance sheet. Record necessary journal entries for the treatment of goodwill on Hari's admission.

The solution for this question is as follows:

Books of Rajesh, Mukesh and Hari

Journal

Date	Particulars	L.F.	Amount ₹	Amount ₹
	Hari's Capital A/c Dr.		8,000	
	To Rajesh's Capital A/c			2,000
	To Mukesh's Capital A/c			6,000
	(Adjustment of Hari's share of goodwill)			

Working Notes:

1) Goodwill of a firm = 36,000

Hari's share in goodwill

= Goodwill of firm × admitting Partner Share

$$36,000 \times \frac{2}{9} = 8,000$$

2) Sacrificing Ratio = Old Ratio – New Ratio

$$\text{Rajesh's} = \frac{1}{2} - \frac{4}{9} = \frac{9-8}{18} = \frac{1}{18}$$

$$\text{Mukes's} = \frac{1}{2} - \frac{3}{9} = \frac{9-6}{18} = \frac{3}{18}$$

Sacrificing Ratio between Rajesh and Mukesh 1:3.

26. Amar and Akbar are equal partners in a firm. They admitted Anthony as a new partner and the new profit sharing ratio is 4:3:2. Anthony could not bring this share of goodwill ₹ 45,000 in cash. It is decided to do adjustment for goodwill without opening goodwill account. Pass the necessary journal entry for the treatment of goodwill?

The solution for this question is as follows

Books of Amar, Akbar and Anthony

Journal

Date	Particulars	L.F.	Amount ₹	Amount ₹
	Anthony's Capital A/c Dr. To Amar's Capital A/c To Akbar's Capital A/c (Adjustment of Anthony's share of goodwill between Amar and Akbar in sacrificing ratio)		45,000	11,250 33,750

Working Notes:

1) Sacrificing Ratio = Old Ratio – New Ratio

$$\text{Amar's sacrificing ratio} = \frac{1}{2} - \frac{4}{9} = \frac{9-8}{18} = \frac{1}{18}$$

$$\text{Akbar's sacrificing ratio} = \frac{1}{2} - \frac{3}{9} = \frac{9-6}{18} = \frac{3}{18}$$

Sacrificing Ratio between Amar and Akbar = 1:3.

27. Given below is the Balance Sheet of A and B, who are carrying on partnership business on 31.12.2016. A and B share profits and losses in the ratio of 2:1.

Balance Sheet of A and B as on December 31, 2016

	Amount (₹)		Amount (₹)
Liabilities		Assets	
Bills Payable	10,000	Cash in Hand	10,000
Creditors	58,000	Cash at Bank	40,000
Outstanding	2,000	Sundry Debtors	60,000
Expenses		Stock	40,000
Capitals:		Plant	1,00,000
A	1,80,000	Buildings	1,50,000
B	1,50,000		
	4,00,000		4,00,000

C is admitted as a partner on the date of the balance sheet on the following terms:

- (i) C will bring in ₹ 1, 00,000 as his capital and ₹ 60,000 as his share of goodwill for 1/4 share in the profits.
- (ii) Plant is to be appreciated to ₹ 1, 20,000 and the value of buildings is to be appreciated by 10%.
- (iii) Stock is found over valued by ₹ 4,000.
- (iv) A provision for bad and doubtful debts is to be created at 5% of debtors.
- (v) Creditors were unrecorded to the extent of ₹ 1,000.

Pass the necessary journal entries, prepare the revaluation account and partners' capital accounts, and show the Balance Sheet after the admission of C.

The solution for this question is as follows

**Books of A, B and C
Journal**

Date	Particulars	L.F.	Amount ₹	Amount ₹
2016 Dec 31	Bank A/c Dr. To C's Capital A/c To Premium for Goodwill A/c (Capital and premium for goodwill brought by C for 1/4 th share)		1,60,000	1,00,000 60,000
	Premium for Goodwill A/c Dr. To A's Capital A/c To B's Capital A/c (Premium for Goodwill brought by C transferred to old partners' capital account in their sacrificing ratio, 3:1)		60,000	40,000 20,000
	Plant A/c Dr. Building A/c Dr. To Revaluation A/c (Value of assets increased)		20,000 15,000	35,000
	Revaluation A/c Dr. To Stock To Provision for Doubtful Debts A/c To Creditors A/c (Unrecorded) (Liabilities and Assets revalued)		8,000	4,000 3,000 1,000
	Revaluation A/c Dr. To A's Capital A/c To B's Capital A/c		27,000	18,000 9,000

(Profit on revaluation transferred to old partners' capital account)				
--	--	--	--	--

Revaluation Account

Dr.			Cr.	
Particulars	Amount ₹	Particulars	Amount ₹	
Stock	4,000	Plant	20,000	
Provision for Doubtful Debts	3,000	Building	15,000	
Creditors (Unrecorded)	1,000			
Profit transferred to				
A's Capital	18,000			
B's Capital	9,000			
	27,000			
	35,000		35,000	

Partners' Capital Account

Dr.				Cr.			
Particulars	A	B	C	Particulars	A	B	C
Balance c/d	2,38,000	1,79,000	1,00,000	Balance b/d	1,80,000	1,50,000	
				Bank			1,00,000
				Premium for Goodwill	40,000	20,000	
				Revaluation	18,000	9,000	
	2,38,000	1,79,000	1,00,000		2,38,000	1,79,000	1,00,000

Balance Sheet as on December 31, 2016

Liabilities	Amount (₹)	Assets	Amount (₹)
Bills Payable	10,000	Cash in Hand	10,000
Creditors	59,000	Cash at Bank	2,00,000
Outstanding Expenses	2,000	Sundry Debtors	60,000
Capital:		Less: Provision for Doubtful Debt	3,000
A	2,38,000	Stock	36,000
B	1,79,000	Plant	1,20,000
C	1,00,000	Building	1,65,000
	5,88,000		5,88,000

Working Note:

1) Sacrificing ratio = Old Ratio – New Ratio

$$\text{A's Sacrificing Share} = \frac{2}{3} - \frac{2}{4} = \frac{8-6}{12} = \frac{2}{12}$$

$$\text{B's Sacrificing Share} = \frac{1}{3} - \frac{1}{4} = \frac{4-3}{12} = \frac{1}{12}$$

Sacrificing ratio between A and B = 2:1.

28. Leela and Meeta were partners in a firm sharing profits and losses in the ratio of 5:3. On 1st Jan. 2017 they admitted Om as a new partner. On the date of Om's admission the balance sheet of Leela and Meeta showed a balance of ₹ 16,000 in general reserve and ₹ 24,000 (Cr) in Profit and Loss Account. Record necessary journal entries for the treatment of these items on Om's admission. The new profit sharing ratio between Leela, Meeta and Om was 5:3:2.

The solution for this question is as follows

Books of Leela, Meeta and Om
Journal

Date	Particulars	L.F.	Amount ₹	Amount ₹
2017 Jan 1	General Reserve A/c Dr.		16,000	
	Profit and Loss A/c Dr.		24,000	
	To Leela's Capital A/c			25,000
	To Meeta's Capital A/c			15,000
	(General reserve and balance in Profit and Loss credited to old partners' capital account in their old ratio, 5:3)			

29. Amit and Viney are partners in a firm sharing profits and losses in 3:1 ratio. On 1.1.2017 they admitted Ranjan as a partner. On Ranjan's admission the profit and loss account of Amit and Viney showed a debit balance of ₹ 40,000. Record necessary journal entry for the treatment of the same.

The solution for this question is as follows

Books of Amit, Viney and Ranjan
Journal

Date	Particulars	L.F.	Amount ₹	Amount ₹
2017 Jan 1	Amit's Capital A/c Dr.		30,000	
	Viney's Capital A/c Dr.		10,000	
	To Profit and Loss A/c			40,000
	(Debit Balance in Profit and Loss Account written off)			

30. A and B share profits in the proportions of $\frac{3}{4}$ and $\frac{1}{4}$. Their Balance Sheet on Dec. 31, 2016 was as follows:

Balance Sheet of A and B as on December 31, 2016

Liabilities	Amount (₹)	Assets	Amount (₹)
Sundry creditors	41,500	Cash at Bank	26,500
Reserve fund	4,000	Bills Receivable	3,000
Capital Accounts		Debtors	16,000
A	30,000	Stock	20,000
B	16,000	Fixtures	1,000
		Land & Building	25,000
	91,500		91,500

On Jan. 1, 2017, C was admitted into partnership on the following terms:

- (a) That C pays ₹ 10,000 as his capital.
- (b) That C pays ₹ 5,000 for goodwill. Half of this sum is to be withdrawn by A and B.
- (c) That stock and fixtures be reduced by 10% and a 5% provision for doubtful debts be created on Sundry Debtors and Bills Receivable.
- (d) That the value of land and buildings be appreciated by 20%.
- (e) There being a claim against the firm for damages, a liability to the extent of ₹ 1,000 should be created.
- (f) An item of ₹ 650 included in sundry creditors is not likely to be claimed and hence should be written back.

Record the above transactions (journal entries) in the books of the firm assuming that the profit sharing ratio between A and B has not changed. Prepare the new Balance Sheet on the admission of C.

The solution for this question is as follows

Books of A, B and C
Journal

Date	Particulars	L.F.	Amount ₹	Amount ₹
2017 Jan. 01	Bank A/c To C's Capital A/c To Premium for Goodwill A/c	Dr.	15,000	10,000 5,000

	(Capital and Premium for goodwill brought by C for 1/5 th share)			
Jan. 01	Premium for Goodwill A/c To A's Capital A/c To B's Capital A/c (Amount of goodwill brought by C is transferred to old partners' capital account in their sacrificing ratio, 3:1)		5,000	3,750 1,250
Jan. 01	A's Capital A/c B's Capital A/c To Bank A/c (Half of amount withdrawn by old partners)	Dr. Dr.	1,875 625	2,500
Jan. 01	Revaluation A/c To Stock A/c To Fixture A/c To Provision for doubtful Debts on Debtors A/c To provision for doubtful Debts on Bills Receivable A/c To Claim for Damages A/c (Liabilities and Assets are revalued)	Dr.	4,050	2,000 100 800 150 1,000
Jan. 01	Land and Building A/c Sundry Creditors A/c To Revaluation A/c (Asset and liability are revalued)	Dr.	5,000 650	5,650
Jan. 01	Revaluation A/c To A's Capital A/c To B's Capital A/c (Profit on Revaluation transferred to old partners' capital)	Dr.	1,600	1,200 400
Jan. 01	Reserve Fund A/c To A's Capital A/c To B's Capital A/c (Reserve Fund distributed among old partners)	Dr.	4,000	3,000 1,000

Balance Sheet as on January 01, 2007

Liabilities	Amount (₹)	Assets	Amount (₹)
Sundry Creditors	40,850	Cash at Bank	39,000
Claim for Damages	1,000	Bills Receivable	3,000
A	36,075	Less: Provision	150
B	18,025	Debtors	16,000
C	10,000	Less: Provision	800
	64,100	Stock	18,000
		Fixtures	900
		Land and Building	30,000
	1,05,950		1,05,950

Working Note:

1)

Partners' Capital Account

Dr.	A	B	C	Particulars	A	B	C	Cr.
Bank	1,875	625		Balance b/d	30,000	16,000		
Balance c/d	36,075	18,025	10,000	Bank			10,000	
				Premium for Goodwill	3,750	1,250		
				Revaluation	1,200	400		
				Reserve Fund	3,000	1,000		
	37,950	18,650	10,000		37,950	18,650	10,000	

2)

Bank Account

Dr.	Amount ₹	Particulars	Amount ₹	Cr.
Balance b/d	26,500	A's Capital A/c		1,875
C's Capital A/c	10,000	B's Capital A/c		625
Premium for Goodwill	5,000	Balance c/d		39,000
	41,500			41,500

3)

Sacrificing ratio = Old Ratio – New Ratio

$$\text{A's Sacrificing Share} = \frac{3}{4} - \frac{3}{5} = \frac{12-9}{20} = \frac{3}{20}$$

$$\text{B's Sacrificing Share} = \frac{1}{4} - \frac{1}{5} = \frac{5-4}{20} = \frac{1}{20}$$

Note: Assuming that ratio between A and B has not change hence sacrificing ratio should be same as old ratio.

31. A and B are partners sharing profits and losses in the ratio of 3:1. On 1st Jan. 2017 they admitted C as a new partner for 1/4 share in the profits of the firm. C brings ₹ 20,000 as for his 1/4 share in the profits of the firm. The capitals of A and B after all adjustments in respect of goodwill, revaluation of Liabilities and Assets, etc. has been worked out at ₹ 50,000 for A and ₹ 12,000 for B. It is agreed that partner's capitals will be according to new profit sharing ratio. Calculate the new capitals of A and B and pass the necessary journal entries assuming that A and B brought in or withdrew the necessary cash as the case may be for making their capitals in proportion to their profit sharing ratio?

The solution for this question is as follows

**Books of A, B and C
Journal**

Date	Particulars	L.F.	Amount ₹	Amount ₹
2017 Jan. 01	A's Capital A/c To Cash A/c (Excess capital withdrawn by A)	Dr.	5,000	5,000
	Cash A/c To B's Capital A/c (Capital brought in by B to make in proportion to the profit sharing)	Dr.	3,000	3,000

1) Calculation of New Profit sharing Ratio

$$C's \text{ Shares} = \frac{1}{4}$$

$$\text{Remaining share} = 1 - \frac{1}{4} = \frac{3}{4}$$

$$A's \text{ new share} = \frac{3}{4} \times \frac{3}{4} = \frac{9}{16}$$

$$B's \text{ new share} = \frac{1}{4} \times \frac{3}{4} = \frac{3}{16}$$

$$\left\{ C's \text{ share} = \frac{1}{4} \times \frac{4}{4} = \frac{4}{16} \right\}$$

New Profit sharing ratio of A, B and C will be 9:3:4

2) New Capital of A and B.

C bring ₹ 20,000 for 1/4th share of profit in the new firm.

$$20,000 \times \frac{4}{1} = 80,000$$

Thus, total capital of firm on the basis of C's share =

$$A's \text{ Capital} = \frac{9}{16} \times 80,000 = 45,000$$

$$\text{Thus, A will withdraw} = 50,000 - 45,000 = 5,000$$

$$B's \text{ Capital} = \frac{3}{16} \times 80,000 = 15,000$$

Thus, B's will bring 15,000 - 12,000 = 3,000

32. Pinky, Qumar and Roopa partners in a firm sharing profits and losses in the ratio of 3:2:1. S is admitted as a new partner for 1/4 share in the profits of the firm, which he gets 1/8 from Pinky, and 1/16 each from Qumar and Roopa. The total capital of the new firm after Seema's admission will be ₹ 2, 40,000. Seema is required to bring in cash equal to 1/4 of the total capital of the new firm. The capitals of the old partners also have to be adjusted in proportion of their profit sharing ratio. The capitals of Pinky, Qumar and Roopa after all adjustments in respect of goodwill and revaluation of Liabilities and Assets have been made are Pinky ₹ 80,000, Qumar ₹ 30,000 and Roopa ₹ 20,000. Calculate the capitals of all the partners and record the necessary journal entries for doing adjustments in respect of capitals according to the agreement between the partners?

The solution for this question is as follows

1) Calculation of new profit sharing Ratio = Old Ratio - Sacrificing Ratio

$$\text{Pinky} = \frac{3}{6} - \frac{1}{8} = \frac{12-3}{24} = \frac{9}{24}$$

$$\text{Qumar} = \frac{2}{6} - \frac{1}{16} = \frac{16-3}{48} = \frac{13}{48}$$

$$\text{Roopa} = \frac{1}{6} - \frac{1}{16} = \frac{8-3}{48} = \frac{5}{48}$$

New profit sharing ratio between Pinky, Qumar, Roopa and Seema

$$\frac{9}{24} : \frac{13}{48} : \frac{5}{48} : \frac{1}{4} = \frac{18}{48} : \frac{13}{48} : \frac{5}{48} : \frac{12}{48} = 18:13:5:12$$

2) Required capital of all partners in the new firm

$$\text{Pinky's Capital} = 2,40,000 \times \frac{18}{48} = 90,000$$

$$\text{Qumar's Capital} = 2,40,000 \times \frac{13}{48} = 65,000$$

$$\text{Roopa's Capital} = 2,40,000 \times \frac{5}{48} = 25,000$$

$$\text{Seema's Capital} = 2,40,000 \times \frac{12}{48} = 60,000$$

3) Amount to be brought by each partner

$$\text{Pinky} = 90,000 - 80,000 = 10,000$$

$$\text{Qumar} = 65,000 - 30,000 = 35,000$$

$$\text{Roopa} = 25,000 - 20,000 = 5,000$$

$$\text{Seema} = 2,40,000 \times \frac{1}{4} = 60,000$$

**Books of Pinky, Kumar, Roopa and Seema
Journal**

Date	Particulars	L.F.	Amount ₹	Amount ₹
	Bank A/c Dr. To Seema Capital A/c (Seema bring her share of Capital for 1/4 th share of profit)		60,000	60,000
	Bank A/c Dr. To Pinky's Capital A/c To Kumar's Capital A/c To Roopa's Capital A/c (Amount brought by Pinky, Kumar and Roopa to make capital equal to their proportion)		50,000	10,000 35,000 5,000

33. The following was the Balance Sheet of Arun, Bablu and Chetan sharing profits and losses in the ratio of $\frac{6}{14} : \frac{5}{14} : \frac{3}{14}$ respectively.

Liabilities	Amount (₹)	Assets	Amount (₹)
Creditors	9,000	Land and Buildings	24,000
Bills Payable	3,000	Furniture	3,500
Capital Accounts		Stock	14,000
Arun	19,000	Debtors	12,600
Bablu	16,000	Cash	900
Chetan	8,000		
	43,000		
	55,000		55,000

They agreed to take Deepak into partnership and give him a share of 1/8 on the following terms:

- (a) That Deepak should bring in ₹ 4,200 as goodwill and ₹ 7,000 as his Capital;
- (b) That furniture be depreciated by 12%;
- (c) That stock be depreciated by 10%;
- (d) That a Reserve of 5% be created for doubtful debts;
- (e) That the value of land and buildings having appreciated be brought up to ₹ 31,000;

(f) That after making the adjustments the capital accounts of the old partners (who continue to share in the same proportion as before) be adjusted on the basis of the proportion of Deepak's Capital to his share in the business, i.e., actual cash to be paid off to, or brought in by the old partners as the case may be.

Prepare Cash Account, Profit and Loss Adjustment Account (Revaluation Account) and the Opening Balance Sheet of the new firm.

The solution for this question is as follows

Books of Arun, Bablu, Chetan and Deepak
Profit and Loss Adjustment Account
(Revaluation Account)

Dr.		Cr.	
Particulars	Amount ₹	Particulars	Amount ₹
Furniture	420	Land and Buildings	7,000
Stock	1,400		
Reserve for Doubtful Debts	630		
Profit on revaluation			
Profit transferred to			
Arun's Capital	1,950		
Bablu's Capital	1,625		
Chetan's Capital	975		
	4,550		
	7,000		7,000

Cash Account

Dr.		Cr.	
Particulars	Amount ₹	Particulars	Amount ₹
Balance b/d	900	Arun's Capital	1,750
Chetan's Capital	625	Bablu's Capital	1,625
Deepak's Capital	7,000	Balance c/d	9,350
Premium for Goodwill	4,200		
	12,725		12,725

Balance Sheet

	Amount (₹)		Amount (₹)
Liabilities		Assets	
Creditors	9,000	Land and Buildings	31,000
Bills Payable	3,000	Furniture	3,080
Capital Account		Stock	12,600
Arun	21,000	Debtor	12,600
Bablu	17,500	Less: Reserve for Doubtful Debt	630
Chetan	10,500	Cash	9,350
Deepak	7,000		
	68,000		68,000

Working Note:

1)

Partner's Capital Account

Dr.					Cr.				
Particulars	Arun	Bablu	Chetan	Deepak	Particulars	Arun	Bablu	Chetan	Deepak
Bank	1,750	1,625			Balance b/d	19,000	16,000	8,000	
Balance c/d	21,000	17,500	10,500	7,000	Cash A/c				7,000
					Premium for goodwill	1,800	1,500	900	
					Revaluation	1,950	1,625	975	
					Bank			625	
	22,750	19,125	10,500	7,000		22,750	19,125	10,500	7,000

2) Calculation of New Profit Sharing Ratio

$$\text{Deepak's Share} = \frac{1}{8}$$

$$\text{Remaining Share} = 1 - \frac{1}{8} = \frac{7}{8}$$

$$\text{Arun's New Share} = \frac{6}{14} \times \frac{7}{8} = \frac{42}{112}$$

$$\text{Bablu's New Share} = \frac{5}{14} \times \frac{7}{8} = \frac{35}{112}$$

$$\text{Chetan's New Share} = \frac{3}{14} \times \frac{7}{8} = \frac{21}{112}$$

New Profit sharing ratio of Arun, Bablu, Chetan and Deepak

$$= \frac{42}{112} : \frac{35}{112} : \frac{21}{112} : \frac{1}{8} \text{ or } \frac{42}{112} : \frac{35}{112} : \frac{21}{112} : \frac{14}{112}$$

$$= 42:35:21:14 \text{ or } 6:5:3:2$$

3) Calculation of capital of Arun, Bablu, and Chetan in the new firm

Deepak bring ₹ 7,000 for $\frac{1}{8}$ th share of profit.

$$\text{Hence total capital of the new firm} = 7,000 \times \frac{8}{1} = 56,000$$

$$\text{Arun's Capital} = 56,000 \times \frac{6}{16} = 21,000$$

$$\text{Bablu's Capital} = 56,000 \times \frac{5}{16} = 17,500$$

$$\text{Chetan's Capital} = 56,000 \times \frac{3}{16} = 10,500$$

34. Azad and Babli are partners in a firm sharing profits and losses in the ratio of 2:1. Chintan is admitted into the firm with $\frac{1}{4}$ share in profits. Chintan will bring in ₹ 30,000 as his capital and the capitals of Azad and Babli are to be adjusted in the profit sharing ratio. The Balance Sheet of Azad and Babli as on December 31, 2016 (before Chintan's admission) was as follows:

Balance Sheet of A and B as on 31.12.2016

Liabilities	Amount (₹)	Assets	Amount (₹)
Creditors	8,000	Cash in hand	2,000
Bills payable	4,000	Cash at bank	10,000
General reserve	6,000	Sundry debtors	8,000
Capital accounts:		Stock	10,000
Azad	50,000	Furniture	5,000
Babli	32,000	Machinery	25,000
	82,000	Buildings	40,000
	1,00,000		1,00,000

It was agreed that:

- i) Chintan will bring in ₹ 12,000 as his share of goodwill premium.
- ii) Buildings were valued at ₹ 45,000 and Machinery at ₹ 23,000.
- iii) A provision for doubtful debts is to be created @ 6% on debtors.
- iv) The capital accounts of Azad and Babli are to be adjusted by opening current accounts.

Record necessary journal entries, show necessary ledger accounts and prepare the Balance Sheet after admission.

Books of Azad, Babli and Chintan

Journal

Date	Particulars	L.F.	Amount ₹	Amount ₹
2016 Dec 31	Bank A/c Dr. To Chintan's Capital A/c To Premium for Goodwill A/c (Chintan brought Capital and Premium for Goodwill for 1/4 share of profit)		42,000	30,000 12,000
	Premium for Goodwill A/c Dr. To Azad's Capital A/c To Babli's Capital A/c (Goodwill brought by Chintan transferred to old partners capital account in their sacrificing ratio, 2:1)		12,000	8,000 4,000
	General Reserve A/c Dr. To Azad's Capital A/c		6,000	4,000

To Babli's Capital A/c (General reserve distributed between old partners)				2,000
Building A/c To Revaluation A/c (Increase in value of Building adjusted)	Dr.	5,000		5,000
Revaluation A/c To Machinery A/c To Provision for Doubtful Debt (Decrease in value of machinery adjusted and Provision for Doubtful Debt created)	Dr.	2,480		2,000 480
Revaluation A/c To Azad is Capital A/c To Babli's Capital A/c (Profit on revaluation transferred to Azad and Babli's Capital Account)	Dr.	2,520		1,680 840
Azad's Capital A/c To Azad's Current A/c (Excess of Capital transferred to current account)	Dr.	3,680		3,680
Babli's Capital A/c To Babli's Current A/c (Excess of Capital transferred to current account)	Dr.	8,840		8,840

Revaluation Account

Dr.		Cr.	
Particulars	Amount ₹	Particulars	Amount ₹
To Machinery	2,000	Building	5,000
To Provision for Doubtful Debt	480		
To Profit transferred to			
Azad's Capital	1,680		
Babli's Capital	840		
	2,520		
	5,000		5,000

Partner's Capital Account

Dr.				Cr.			
Particulars	Azad	Babli	Chintan	Particulars	Azad	Babli	Chintan
Current A/c	3,680	8,840		Balance b/d	50,000	32,000	
Balance c/d	60,000	30,000	30,000	Bank			30,000
				Premium for Goodwill	8,000	4,000	
				General Reserve	4,000	2,000	
				Revaluation	1,680	840	
	63680	38,840	30,000		63680	38,840	30,000

Balance Sheet as on December 31, 2006

Liabilities	Amount (₹)	Assets	Amount (₹)
Creditors	8,000	Cash in Hand	2,000
Bills Payable	4,000	Cash at Bank	52,000
Current Accounts:		Sundry Debtors	8,000
Azad	3,680	Less: Provision for Doubtful debt	480
Babli	8,840	Stock	10,000
Capital Accounts:		Furniture	5,000
Azad	60,000	Machinery	23,000
Babli	30,000	Building	45,000
Chintan	30,000		
	1,20,000		
	1,44,520		1,44,520

Working Note:

1) Calculation of New Profit Sharing Ratio

$$\text{Chintan's Share} = \frac{1}{4}$$

$$\text{Remaining Share of firm} = 1 - \frac{1}{4} = \frac{3}{4}$$

$$\text{Azad's New Share} = \frac{2}{3} \times \frac{3}{4} = \frac{6}{12}$$

$$\text{Babli's New Share} = \frac{1}{3} \times \frac{3}{4} = \frac{3}{12}$$

New Profit sharing ratio of Azad, Babli and Chintan

$$= \frac{6}{12} : \frac{3}{12} : \frac{1}{4} \text{ or } \frac{6}{12} : \frac{3}{12} : \frac{3}{12} \text{ or } 6:3:3 \text{ or } 2:1:1.$$

2) New Capital of Azad, and Babli

Chintan bring ₹ 30,000 for $\frac{1}{4}$ share of profit. Hence total capital of a firm = $30,000 \times \frac{4}{1} = 1,20,000$

$$\text{Azad's Capital} = 1,20,000 \times \frac{2}{4} = 60,000$$

$$\text{Babli's Capital} = 1,20,000 \times \frac{1}{4} = 30,000$$

35. Ashish and Dutta were partners in a firm sharing profits in 3:2 ratio. On Jan. 01, 2015 they admitted Vimal for 1/5 share in the profits. The Balance Sheet of Ashish and Dutta as on Jan. 01, 2016 was as follows:

Balance Sheet of A and B as on 1.1.2016

Liabilities	Amount ₹	Assets	Amount ₹
Creditors	15,000	Land & Building	35,000
Bills Payable	10,000	Plant	45,000
Ashish Capital	80,000	Debtors	22,000
Dutta's Capital	35,000	Less : Provision	2,000
		Stock	35,000
		Cash	5,000
	1,40,000		1,40,000

It was agreed that:

- i) The value of Land and Building be increased by ₹ 15,000.
- ii) The value of plant be increased by 10,000.
- iii) Goodwill of the firm be valued at ₹ 20,000.
- iv) Vimal to bring in capital to the extent of 1/5th of the total capital of the new firm.

Record the necessary journal entries and prepare the Balance Sheet of the firm after Vimal's admission.

The solution for this question is as follows

**Books of Ashish, Dutta and Vimal
Journal**

Date	Particulars	L.F.	Amount ₹	Amount ₹
2016 Jan 1	Land and Building A/c Dr.		15,000	
	Plant A/c Dr.		10,000	
	To Revaluation A/c			25,000
	(Increased in the value of assets)			
	Revaluation A/c Dr.		25,000	
	To Ashish's Capital A/c			15,000
	To Dutta's Capital A/c			10,000
	(Profit on revaluation transferred to partners' capital account)			
	Cash A/c Dr.		36,000	
	To Vimal Capital A/c			36,000
	(Capital brought by Vimal)			
	Vimal's Current A/c Dr.		4,000	
	To Ashish's Capital A/c			2,400
	To Dutta's Capital A/c			1,600
	(Vimal's share goodwill adjusted through his current account)			

Balance Sheet as on January 01, 2016

Liabilities	Amount ₹	Assets	Amount ₹
Creditors	15,000	Land and Building	50,000
Bills Payable	10,000	Plant	55,000
Ashish's Capital Account	97,400	Debtors	22,000
Dutta's Capital Account	46,600	Less: Provision	2,000
Vimal's Capital Account	36,000	Stock	35,000
		Cash	41,000
		Vimal's Current Account	4,000
	2,05,000		2,05,000

1) Working Note:

Partners' Capital Account

Dr.				Cr.			
Particulars	Ashish	Dutta	Vimal	Particulars	Ashish	Dutta	Vimal
Balance c/d	97,400	46,600	36,000	Balance b/d	80,000	35,000	
				Revaluation	15,000	10,000	
				Cash			36,000
				Vimal Current	2,400	1,600	
	97,400	46,600	36,000		97,400	46,600	36,000

2)

Vimal Current Account

Dr.		Cr.	
Particulars	Amount ₹	Particulars	Amount ₹
Ashish's Capital A/c	2,400	Balance c/d	4,000
Dutta's Capital A/c	1,600		
	4,000		

3) Calculation of New Profit Sharing Ratio

$$\text{Vimal's Share} = \frac{1}{5}$$

$$\text{Remaining Share of firm} = 1 - \frac{1}{5} = \frac{4}{5}$$

$$\text{Ashish's share in the new firm} = \frac{3}{5} \times \frac{4}{5} = \frac{12}{25}$$

$$\text{Dutta's share in the new firm} = \frac{2}{5} \times \frac{4}{5} = \frac{8}{25}$$

New Profit sharing ratio of Ashish, Dutta and Vimal

$$= \frac{12}{25} : \frac{8}{25} : \frac{1}{5} \text{ or } \frac{12}{25} : \frac{8}{25} : \frac{5}{25} \text{ or } 12:8:5.$$

4) Sacrificing Ratio = Old Ratio – New Ratio

$$\text{Ashish's Sacrificing Share} = \frac{3}{5} - \frac{12}{25} = \frac{15-12}{25} = \frac{3}{25}$$

$$\text{Dutta's Sacrificing Share} = \frac{2}{5} - \frac{8}{25} = \frac{10-8}{25} = \frac{2}{25}$$

Sacrificing Ratio between Ashish and Dutta is 3:2

Note: Here, Goodwill has been adjusted through current account because Vimal has not brought his share of goodwill and he is to bring capital in proportion to total capital of the new firm after adjustment.

5) Capital of new firm on the basis of old partners adjusted capital:

Total adjusted capital of old partners

Ashish's Capital	=	97,400
Dutta's Capital	=	<u>46,600</u>
		<u>1,44,000</u>

$$\text{Remaining Share of Ashish and Dutta (old partners) in the new firm} = \frac{4}{5}$$

$$\text{Capital of the new firm} = 1,44,000 \times \frac{5}{4} = 1,80,000$$

$$\text{Vimal's share in the capital of the new firm} = 1,80,000 \times \frac{1}{5} = 36,000.$$