

One Two academy**UNIT 6****RETIREMENT AND DEATH OF A PARTNER****I. Choose the correct answer :**

1. A partner retires from the partnership firm on 30th June. He is liable for all the acts of the firm up to the
 - (a) End of the current accounting period
 - (b) End of the previous accounting period
 - (c) Date of his retirement
 - (d) Date of his final settlement
2. On retirement of a partner from a partnership firm, accumulated profits and losses are distributed to the partners in the
 - (a) New profit sharing ratio
 - (b) Old profit sharing ratio
 - (c) Gaining ratio
 - (d) Sacrificing ratio
3. On retirement of a partner, general reserve is transferred to the
 - (a) Capital account of all the partners
 - (b) Revaluation account
 - (c) Capital account of the continuing partners
 - (d) Memorandum revaluation account
4. On revaluation, the increase in liabilities leads to
 - (a) Gain
 - (b) Loss
 - (c) Profit
 - (d) None of these
5. At the time of retirement of a partner, determination of gaining ratio is required
 - (a) To transfer revaluation profit or loss
 - (b) To distribute accumulated profits and losses
 - (c) To adjust goodwill
 - (d) None of these
6. If the final amount due to a retiring partner is not paid immediately, it is transferred to
 - (a) Bank A/c
 - (b) Retiring partner's capital A/c
 - (c) Retiring partner's loan A/c
 - (d) Other partners' capital A/c
7. 'A' was a partner in a partnership firm. He died on 31st March 2019. The final amount due to him is ₹ 25,000 which is not paid immediately. It will be transferred to

- (a) A's capital account (b) A's current account
(c) A's Executor account (d) A's Executor loan account
8. A, B and C are partners sharing profits in the ratio of 2:2:1. On retirement of B, goodwill of the firm was valued as ₹ 30,000. Find the contribution of A and C to compensate B:
(a) ₹ 20,000 and ₹ 10,000 (b) ₹ 8,000 and ₹ 4,000
(c) ₹ 10,000 and ₹ 20,000 (d) ₹ 15,000 and ₹ 15,000
9. A, B and C are partners sharing profits in the ratio of 4:2:3. C retires. The new profit sharing ratio between A and B will be
(a) 4:3 (b) 3:4
(c) 2:1 (d) 1:2
10. X, Y and Z were partners sharing profits and losses equally. X died on 1st April 2019. Find out the share of X in the profit of 2019 based on the profit of 2018 which showed ₹ 36,000.
(a) ₹ 1,000 (b) ₹ 3,000
(c) ₹ 12,000 (d) ₹ 36,000

Answers :

1 (c) 2 (b) 3 (a) 4 (b) 5 (c) 6 (c) 7 (d) 8 (b) 9 (c) 10 (b)

II. Very short answer questions :

1. What is meant by retirement of partners ?
i) When a partner leaves from a partnership firm, it is known as retirement. The reasons for the retirement of a partner may be illness, old age, better opportunity elsewhere, disagreement with other partners, etc.
ii) On retirement of a partner, existing agreement comes to an end.
2. What is gaining ratio ?
i) The continuing partners may gain a portion of the share of profit of the retiring partner. The gain may be shared by all the partners or some of the partners.
ii) Gaining ratio is the proportion of the profit which is gained by the continuing partners.
Share gained = New share – Old share
Gaining ratio = Ratio of share gained by the continuing partner
3. What is the purpose of calculating gaining ratio ?

- i) The purpose of finding the gaining ratio is to bear the goodwill to be paid to the retiring partner.
- ii) The share gained is calculated as follows:

$$\text{Share gained} = \text{New share} - \text{Old share}$$

$$\text{Gaining ratio} = \text{Ratio of share gained by the continuing partners}$$

4. What is the journal entry to be passed to transfer the amount due to the deceased partner to the executor of the deceased partner ?

Date	Particulars	L.F	Debit ₹	Credit ₹
	Deceased partner's capital A/c Dr.		xxx	
	To Deceased partner's executor A/c			xxx

III. Short answer questions :

1. List out the adjustments made at the time of retirement of a partner in a partnership firm.

The following adjustments are necessary at the time of retirement of a partner:

- i) Distribution of accumulated profits, reserves and losses
 - ii) Revaluation of assets and liabilities
 - iii) Determination of new profit sharing ratio and gaining ratio
 - iv) Adjustment for goodwill
 - v) Adjustment for current year's profit or loss upto the date of retirement
 - vi) Settlement of the amount due to the retiring partner
2. Distinguish between sacrificing ratio and gaining ratio.

Basic	Sacrificing ratio	Gaining ratio
1. Meaning	It is the proportion of the profit which is sacrificed by the old partners in favour of a new partner.	It is the proportion of the profit which is gained by the continuing partners from the retiring partner.
2. Purpose	It is calculated to determine the amount to be adjusted towards goodwill for the sacrificing partners.	It is calculated to determine the amount to be adjusted towards goodwill for the gaining partners.
3. Time of calculation	It is calculated at the time of admission of a new partner.	It is calculated at the time of retirement of a partner.

4.Method of calculation	It is the difference between the old ratio and the new ratio. Sacrificing ratio = Old profit sharing ratio – New profit sharing ratio	It is the difference between the new ratio and the old ratio. Gaining ratio = New profit sharing ratio - Old profit sharing ratio
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3. What are the ways in which the final amount due to an outgoing partner can be settled?

The amount due to the retiring partner may be settled in one of the following ways:

- Paying the entire amount due immediately in cash
- Transfer the entire amount due, to the loan account of the partner
- Paying part of the amount immediately in cash and transferring the balance to the loan account of the partner

IV. Exercises :

Retirement of a partner :

Distribution of accumulated profits, reserves and losses:

1. Dheena, Surya and Janaki are partners sharing profits and losses in the ratio of 5:3:2. On 31.3.2018, Dheena retired. On the date of retirement, the books of the firm showed a reserve fund of ₹ 50,000. Pass journal entry to transfer the reserve fund.

Solution : Journal entry

Date	Particulars	L.F	Debit ₹	Credit ₹
2018 Mar 31	General reserve A/c Dr. To Dheena's capital A/c (50,000 x 5/10) To Surya's capital A/c (50,000 x 3/10) To Janaki's capital A/c (50,000 x 2/10) (General reserve transferred to all partner's capital A/c in the old profit sharing ratio)		50,000	25,000 15,000 10,000

2. Rosi, Rathi and Rani are partners of a firm sharing profits and losses equally. Rathi retired from the partnership on 1.1.2018. On that date, their balance sheet showed

accumulated loss of ₹ 45,000 on the asset side of the balance sheet. Give the journal entry to distribute the accumulated loss.

Solution : Journal entry

Date	Particulars	L.F	Debit ₹	Credit ₹
2018	Rosi's capital A/c	Dr.	15,000	
Jan 1	Rathi's capital A/c	Dr.	15,000	
	Rani's capital A/c	Dr.	15,000	
	To profit and loss A/c			45,000
	(Accumulated loss transferred to all partner's capital A/c in the old profit sharing ratio)			

3. Akash, Mugesh and Sanjay are partners in a firm sharing profits and losses in the ratio of 3:2:1. Their balance sheet as on 31st March, 2017 is as follows:

Liabilities	₹	₹	Assets	₹
Capital accounts:			Buildings	1,10,000
Akash	40,000		Vehicle	30,000
Mugesh	60,000		Stock in trade	26,000
Sanjay	<u>30,000</u>	1,30,000	Debtors	25,000
Profit and loss appropriation A/c		12,000	Cash in hand	15,000
General reserve		24,000		
Workmen compensation fund		18,000		
Bills payable		22,000		
		2,06,000		2,06,000

Pass journal entry to transfer accumulated Profit and prepare the capital account of the partners.

Solution : Journal entry

Date	Particulars	L.F	Debit ₹	Credit ₹
2018	Profit and loss appropriation A/c	Dr.	12,000	
	General reserve A/c	Dr.	24,000	

Mar	Workmen compensation fund A/c	Dr.	18,000	
31	To Akash's capital A/c (54,000 x 3/6)			27,000
	To Mugesh's capital A/c (54,000 x 2/6)			18,000
	To Sanjay's capital A/c (54,000 x 1/6)			9,000
	(Accumulated profits and reserve transferred to all partner's capital A/c in the old profit sharing ratio)			

Dr.				Cr.			
Particulars	Akash ₹	Mukesh ₹	Sanjay ₹	Particulars	Akash ₹	Mukesh ₹	Sanjay ₹
To balance				By balance b/d	40,000	60,000	30,000
c/d	67,000	78,000	39,000	By Accumulated profit and loss A/c	27,000	18,000	9,000
	67,000	78,000	39,000		67,000	78,000	39,000
				By balance b/d	67,000	78,000	39,000

Revaluation of assets and liabilities:

4. Roja, Neela and Kanaga are partners sharing profits and losses in the ratio of 4:3:3.

On 1st April 2017, Roja retires and on retirement, the following adjustments are agreed upon.

- Increase the value of building by ₹ 30,000.
- Depreciate stock by ₹ 5,000 and furniture by ₹ 12,000.
- Provide an outstanding liability of ₹ 1,000.

Pass journal entries and prepare revaluation account.

Solution:**Journal entries**

Date	Particulars	L.F	Debit ₹	Credit ₹
2017	Building A/c	Dr.	30,000	
April 1	To revaluation A/c (Value of building increased)			30,000
2017	Revaluation A/c	Dr.	18,000	
April 1	To stock A/c			5,000

	To furniture A/c			12,000
	To outstanding liability A/c			1,000
	(Decrease in value of assets and outstanding liability recorded)			
2017	Revaluation A/c	Dr.	12,000	
April 1	To Roja's capital A/c			4,800
	To Neela's capital A/c			3,600
	To Kanaga's capital A/c			3,600
	(Profit on revaluation distributed)			

Dr.

Revaluation A/c

Cr.

Particulars	₹	₹	Particulars	₹
To stock A/c		5,000	By building A/c	30,000
To furniture A/c		12,000		
To outstanding liability A/c		1,000		
To profit on revaluation A/c				
Roja's capital A/c (12,000 x 4/10)	4,800			
Neela's capital A/c (12,000 x 3/10)	3,600			
Kanaga's capital A/c (12,000 x 3/10)	3,600	12,000		
		30,000		30,000

5. Vinoth, Karthi and Pranav are partners sharing profits and losses in the ratio of 2:2:1. Pranav retires from partnership on 1st April 2018. The following adjustments are to be made.

- Increase the value of land and building by ₹ 18,000
- Reduce the value of machinery by ₹15,000
- A provision would also be made for outstanding expenses for ₹ 8,000.

Give journal entries and prepare revaluation account.

Solution:

Journal entries

Date	Particulars	L.F	Debit ₹	Credit ₹
2018	Land and building A/c	Dr.	18,000	

April 1	To revaluation A/c (Value of land and building increased)			18,000
2018 April 1	Revaluation A/c To machinery A/c To outstanding expenses A/c (Decrease in value of machinery and outstanding expenses recorded)	Dr.	23,000	15,000 8,000
2018 April 1	Vinoth's capital A/c Karthi's capital A/c Pranav's capital A/c To revaluation A/c (Loss on revaluation transferred to capital accounts)	Dr. Dr. Dr.	2,000 2,000 1,000	5,000

Dr.

Revaluation A/c

Cr.

Particulars	₹	Particulars	₹	₹
To machinery A/c	5,000	By land and building A/c		18,000
To outstanding expenses A/c	12,000	By loss on revaluation :		
	1,000	Vinoth's capital A/c	2,000	
		Karthi's capital A/c	2,000	
		Pranav's capital A/c	<u>1,000</u>	5,000
	23,000			23,000

6. Chandru, Vishal and Ramanan are partners in a firm sharing profits and losses equally.

Their balance sheet as on 31st March, 2018 is as follows:

Liabilities	₹	₹	Assets	₹	₹
Capital accounts :			Furniture		60,000
Chandru	60,000		Machinery		1,20,000
Vishal	70,000		Sundry debtors	33,000	
Ramanan	<u>70,000</u>	2,00,000	Less: Provision for		
Bills payable		80,000	doubtful debts	<u>3,000</u>	30,000

			Bills receivable		50,000
			Cash at bank		20,000
		2,80,000			2,80,000

Ramanan retired on 31st March 2019 subject to the following conditions:

- Machinery is valued at ₹ 1,50,000
- Value of furniture brought down by ₹ 10,000
- Provision for doubtful debts should be increased to ₹ 5,000
- Investment of ₹ 30,000 not recorded in the books is to be recorded now.

Pass necessary journal entries and prepare revaluation account

Solution: Journal entries

Date	Particulars	L.F	Debit ₹	Credit ₹
2018 Mar 31	Machinery A/c Dr. To revaluation A/c (Value of machinery increased)		30,000	30,000
2018 Mar 31	Revaluation A/c Dr. To furniture A/c To provision for doubtful debts A/c (Decrease in value of furniture and provision for doubtful debts adjusted)		18,000	5,000 12,000 1,000
2018 Mar 31	Investments A/c Dr. To revaluation A/c (Unrecorded investment brought into account)		30,000	30,000
2018 Mar 31	Revaluation A/c Dr. To Chandru's capital A/c To Vishal's capital A/c To Ramanan's capital A/c (Profit on revaluation distributed)		48,000	16,000 16,000 16,000

Dr.

Revaluation A/c

Cr.

Particulars	₹	₹	Particulars	₹
To furniture A/c		10,000	By machinery A/c	30,000

To provision for doubtful debts A/c		2,000	By investments A/c	30,000
To profit on revaluation A/c:				
Chandru's capital A/c (48,000 x 1/3)	16,000			
Vishal's capital A/c (48,000 x 1/3)	16,000			
Ramanan's capital A/c (48,000 x 1/3)	<u>16,000</u>	48,000		
		60,000		60,000

New profit sharing ratio and gaining ratio :

7. Kayal, Mala and Neela are partners sharing profits in the ratio of 2:2:1. Kayal retires and the new profit sharing ratio between Mala and Neela is 3:2. Calculate the gaining ratio.

Solution :

$$\text{Old profit sharing ratio} = 2 : 2 : 1 = \frac{2}{5} : \frac{2}{5} : \frac{1}{5}$$

$$\text{New profit sharing ratio} = 3 : 2 = \frac{3}{5} : \frac{2}{5}$$

$$\text{Share gained} = \text{New share} - \text{Old share}$$

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

$$\text{Neela} = \frac{2}{5} - \frac{1}{5} = \frac{2-1}{5} = \frac{1}{5}$$

$$\text{Gaining ratio} = \frac{1}{5} : \frac{1}{5} = 1 : 1$$

8. Sunil, Sumathi and Sundari are partners sharing profits in the ratio of 3:3:4. Sundari retires and her share is taken up entirely by Sunil. Calculate the new profit sharing ratio and gaining ratio.

Solution :

$$\text{Share gained by Sunil} = \frac{4}{10}$$

$$\text{Gaining ratio} = \frac{4}{10} : 0 = 4 : 0$$

New share of continuing partners = Old share + Share gained

$$\text{Sunil} = \frac{3}{10} + \frac{4}{10} = \frac{3+4}{10} = \frac{7}{10}$$

$$\text{Sumathi} = \frac{3}{10} + 0 = \frac{3+0}{10} = \frac{3}{10}$$

$$\text{New profit sharing ratio} = \frac{7}{10} : \frac{3}{10} = 7 : 3$$

9. Ramu, Somu, Gopu are partners sharing profits in the ratio of 3:5:7. Gopu retires and the share is purchased by Ramu and Somu in the ratio of 3:1. Find the new profit sharing ratio and gaining ratio.

Solution:

$$\text{Gopu's share} = \frac{7}{15}$$

Share gained = Retiring partner's share x Proportion of share gained

$$\text{Ramu} = \frac{7}{15} \times \frac{3}{4} = \frac{21}{60}$$

$$\text{Somu} = \frac{7}{15} \times \frac{1}{4} = \frac{7}{60}$$

$$\text{Gaining ratio} = \frac{21}{60} : \frac{7}{60} = 21 : 7 = 3 : 1$$

New share of continuing partners = Old share + Share gained

$$\text{Ramu} = \frac{3}{15} + \frac{21}{60} = \frac{12+21}{60} = \frac{33}{60} = \frac{11}{20}$$

$$\text{Somu} = \frac{5}{15} + \frac{7}{60} = \frac{20+7}{60} = \frac{27}{60} = \frac{9}{20}$$

$$\text{New profit sharing ratio} = \frac{11}{20} : \frac{9}{20} = 11 : 9$$

10. Navin, Ravi and Kumar are partners sharing profits in the ratio of 1/2, 1/4 and 1/4 respectively. Kumar retires and his share is taken up by Navin and Ravi equally. Calculate the new profit sharing ratio and gaining ratio.

Solution:

Proportion of share gained = 1 : 1 (Kumar's share is taken up by Navin and Ravi equally)

$$\text{Kumar's share} = \frac{1}{4}$$

Share gained = Retiring partner's share x Proportion of share gained

$$\text{Navin} = \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$$

$$\text{Ravi} = \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$$

Gaining ratio = 1 : 1

New share of continuing partners = Old share + Share gained

$$\text{Navin} = \frac{1}{2} + \frac{1}{8} = \frac{4+1}{8} = \frac{5}{8}$$

$$\text{Ravi} = \frac{1}{4} + \frac{1}{8} = \frac{2+1}{8} = \frac{3}{8}$$

$$\text{New profit sharing ratio} = \frac{5}{8} : \frac{3}{8} = 5 : 3$$

11. Mani, Gani and Soni are partners sharing the profits and losses in the ratio of 4:5:6.

Mani retires from the firm. Calculate the new profit sharing ratio and gaining ratio.

Solution:

Since, new profit sharing ratio, share gained and the proportion of share gained is not given, the new share is calculated by assuming that the share gained is in the proportion of old ratio. Therefore, the new profit sharing ratio and the gaining ratio between the continuing partners, Gani and Soni is their old profit sharing ratio, that is 5 : 6

Adjustment for goodwill:

12. Rajan, Suman and Jegan were partners in a firm sharing profits and losses in the ratio of 4:3:2. Suman retired from partnership. The goodwill of the firm on the date of retirement was valued at ₹ 45,000. Pass necessary journal entries for goodwill on the assumption that the fluctuating capital method is followed.

Solution:

As the new profit sharing ratio and gain made by the continuing partners is not mentioned, it is assumed that they gain in their old profit sharing ratio of 4:2.

Gaining ratio = 4:2

$$\text{Suman's share of goodwill} = 45,000 \times \frac{3}{9} = ₹ 15,000$$

Journal entries

Date	Particulars	L.F	Debit ₹	Credit ₹
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Rajan's capital A/c (15,000 x 4/6)	Dr.	10,000	
Jagan's capital A/c (15,000 x 2/6)	Dr.	5,000	
To Suman's capital A/c			15,000
(Suman's share of goodwill is adjusted)			

13. Balu, Chandru and Nirmal are partners in a firm sharing profits and losses in the ratio of 5:3:2. On 31st March 2018, Nirmal retires from the firm. On the date of Nirmal's retirement, goodwill appeared in the books of the firm at ₹ 60,000. By assuming fluctuating capital account, pass the necessary journal entry if the partners decide to
- (a) write off the entire amount of existing goodwill
- (b) write off half of the existing goodwill.

Solution:

- a) Write off the entire amount of existing goodwill

Journal entries

Date	Particulars	L.F	Debit ₹	Credit ₹
2018	Balu's capital A/c (60,000 x 5/10) Dr.		30,000	
Mar 31	Chandru's capital A/c (60,000 x 3/10) Dr.		18,000	
	Nirmal's capital A/c (60,000 x 2/10) Dr.		12,000	
	To Goodwill A/c			60,000
	(Existing goodwill written off)			

- b) Write off half of the amount of existing goodwill that is ₹ 30,000

Journal entries

Date	Particulars	L.F	Debit ₹	Credit ₹
2018	Balu's capital A/c (30,000 x 5/10) Dr.		15,000	
Mar 31	Chandru's capital A/c (30,000 x 3/10) Dr.		8,000	
	Nirmal's capital A/c (30,000 x 2/10) Dr.		6,000	
	To Goodwill A/c			30,000
	(Half of the existing goodwill written off)			

Adjustment for current year's profit or loss upto the date of retirement :

14. Rani, Jaya and Rathi are partners sharing profits and losses in the ratio of 2:2:1. On 31.3.2018, Rathi retired from the partnership. Profit of the preceding years is as follows: 2014: ₹10,000; 2015: ₹ 20,000; 2016: ₹ 18,000 and 2017: ₹ 32,000

Find out the share of profit of Rathi for the year 2018 till the date of retirement if

- (a) Profit is to be distributed on the basis of the previous year's profit
- (b) Profit is to be distributed on the basis of the average profit of the past 4 years

Also pass necessary journal entries by assuming partners capitals are fluctuating.

Solution:

- a) If profit is to be distributed on the basis of the previous year's profit

$$\text{Rathi's share of profit for 3 months} = 32,000 \times \frac{3}{12} \times \frac{1}{5} = ₹ 1,600$$

Journal entries

Date	Particulars	L.F	Debit ₹	Credit ₹
2018 Mar 31	Profit and loss suspense A/c Dr. To Rathi's capital A/c (Rathi's current year share of profit credited to her capital account)		1,600	1,600

- b) If profit is to be distributed on the basis of average profit of the past 4 years.

$$\text{Average profit} = \frac{10,000 + 20,000 + 18,000 + 32,000}{4} = \frac{80,000}{4} = ₹ 20,000$$

$$\text{Rathi's share of profit for 3 months} = 20,000 \times \frac{3}{12} \times \frac{1}{5} = ₹ 1,000$$

Journal entries

Date	Particulars	L.F	Debit ₹	Credit ₹
2018 Mar 31	Profit and loss suspense A/c Dr. To Rathi's capital A/c (Rathi's current year share of profit credited to her capital account)		1,000	1,000

Settlement of amount due to the retiring partner:

15. Kavin, Madhan and Ranjith are partners sharing profits and losses in the ratio of 4:3:3 respectively. Kavin retires from the firm on 31st December, 2018. On the date of

retirement, his capital account shows a credit balance of ₹ 1,50,000. Pass journal entries if:

- (a) The amount due is paid off immediately.
- (b) The amount due is not paid immediately.
- (c) ₹ 1,00,000 is paid and the balance in future.

Solution:

Journal entries

Date	Particulars	L.F	Debit ₹	Credit ₹
2018 Dec 31	a) Kavin's capital A/c Dr. To bank A/c (Amount due paid immediately)		1,50,000	1,50,000
2018 Dec 31	b) Kavin's capital A/c Dr. To Kavin's loan A/c (Amount due transferred to loan account)		1,50,000	1,50,000
2018 Dec 31	c) Kavin's capital A/c Dr. To bank A/c To Kavin's loan A/c (₹ 1,00,000 paid and the balance transferred to loan account)		1,50,000	1,00,000 50,000

16. Manju, Charu and Lavanya are partners in a firm sharing profits and losses in the ratio of 5:3:2. Their balance sheet as on 31st March, 2018 is as follows:

Liabilities	₹	₹	Assets	₹
Capital accounts:			Buildings	1,00,000
Manju	70,000		Furniture	80,000
Charu	70,000		Stock	60,000
Lavanya	<u>70,000</u>	2,10,000	Debtors	40,000
Sundry creditors		40,000	Cash in hand	20,000
Profit and loss A/c		50,000		
		3,00,000		3,00,000

Manju retired from the partnership firm on 31.03.2018 subject to the following adjustments:

- (i) Stock to be depreciated by ₹ 10,000
- (ii) Provision for doubtful debts to be created for ₹ 3,000.
- (iii) Buildings to be appreciated by ₹ 28,000

Prepare revaluation account and capital accounts of partners after retirement.

Solution :

Dr.

Revaluation A/c

Cr.

Particulars	₹	₹	Particulars	₹
To Stock A/c		10,000	By buildings A/c	28,000
To provision for doubtful debts A/c		3,000		
To profit on revaluation :				
Manju's capital A/c (15,000 x 5/10)	7,500			
Charu's capital A/c (15,000 x 3/10)	4,500			
Lavanya's capital A/c (15,000 x 2/10)	3,000	15,000		
		28,000		28,000

Dr.

Capital A/c

Cr.

Particulars	Manju ₹	Charu ₹	Lavanya ₹	Particulars	Manju ₹	Charu ₹	Lavanya ₹
To balance c/d				By balance b/d	70,000	70,000	70,000
To Manju's loan A/c	-	89,500	83,000	By revaluation A/c	7,500	4,500	3,000
	1,02,500	-	-	By profit and loss A/c	25,000	15,000	10,000
	1,02,500	89,500	83,000		1,02,500	89,500	83,000
				By balance b/d	-	89,500	83,000

Comprehensive problems :

17. Kannan, Rahim and John are partners in a firm sharing profit and losses in the ratio of 5:3:2. The balance sheet as on 31st December, 2017 was as follows:

Liabilities	₹	₹	Assets	₹
Capital accounts :			Buildings	90,000
Kannan	1,00,000		Machinery	60,000
Rahim	80,000		Debtors	30,000
John	<u>40,000</u>	2,20,000	Stock	20,000
Workmen compensation fund			Cash at bank	50,000
Creditors		30,000	Profit and loss A/c	20,000
		20,000		
		2,70,000		2,70,000

John retires on 1st January 2018, subject to following conditions:

- To appreciate building by 10%
- Stock to be depreciated by 5%.
- To provide ₹1,000 for bad debts
- An unrecorded liability of ₹ 8,000 have been noticed.
- The retiring partner shall be paid immediately.

Prepare revaluation account, partners' capital account and the balance sheet of the firm after retirement.

Solution:

Dr.	Revaluation A/c				Cr.			
Particulars		₹	Particulars		₹	₹		
To stock A/c		1,000	By building A/c			9,000		
To debtors A/c		1,000	By loss on revaluation:					
To unrecorded liability A/c		8,000	Kannan's capital A/c (1,000 x 5/10)		500			
			Rahim's capital A/c (1,000 x 3/10)		300			
			John's capital A/c (1,000 x 2/10)		<u>200</u>	1,000		
		10,000				10,000		

Dr.	Capital A/c				Cr.			
Particulars	Kannan	Rahim	John	Particulars	Kannan	Rahim	John	
₹	₹	₹	₹		₹	₹	₹	

To profit and loss A/c	10,000	6,000	4,000	By balance b/d	1,00,000	80,000	40,000
To revaluation A/c	500	300	200	By workmen compensation fund A/c	15,000	9,000	6,000
To bank A/c	-	-	41,800				
To balance c/d	1,04,500	82,700	-				
	1,15,000	89,000	46,000		1,15,000	89,000	46,000
				By balance b/d	1,04,500	82,700	-

Balance sheet

Liabilities	₹	₹	Assets	₹	₹
Capital			Buildings	90,000	
Accounts:			Add: Appreciation	<u>9,000</u>	99,000
Kannan	1,04,500		Machinery		60,000
Rahim	<u>82,700</u>	1,87,200	Debtors	30,000	
Sundry creditors		20,000	Less: Bad debts	<u>1,000</u>	29,000
Unrecorded liability		8,000	Stock	20,000	
			Less: Depreciation	<u>1,000</u>	19,000
			Cash at Bank	50,000	
			Less: Amount paid to John	<u>41,800</u>	8,200
		2,15,200			2,15,200

18. Saran, Arun and Karan are partners in a firm sharing profits and losses in the ratio of 4:3:3. Their balance sheet as on 31.12.2016 was as follows:

Liabilities	₹	₹	Assets	₹
Capital accounts :			Buildings	90,000
Kannan	1,00,000		Machinery	60,000
Rahim	80,000		Debtors	30,000
John	<u>40,000</u>	2,20,000	Stock	20,000
Workmen compensation fund			Cash at bank	50,000
Creditors		30,000	Profit and loss A/c	20,000

		20,000		
		2,70,000		2,70,000

Karan retires on 1.1.2017 subject to the following conditions:

- Goodwill of the firm is valued at ₹ 21,000
- Machinery to be appreciated by 10%
- Building to be valued at ₹ 80,000
- Provision for bad debts to be raised to ₹ 2,000
- Stock to be depreciated by ₹ 2,000
- Final amount due to Karan is not paid immediately

Prepare the necessary ledger accounts and show the balance sheet of the firm after retirement.

Solution:

Dr.		Revaluation A/c		Cr.	
Particulars	₹	₹	Particulars	₹	
To stock A/c		2,000	By machinery A/c	4,000	
To provision for bad debts A/c		1,000	By building A/c	20,000	
To profit on revaluation :					
Saran's capital A/c	8,400				
Arun's capital A/c	6,300				
Karan's capital A/c	6,300	21,000			
		24,000		24,000	

Dr.		Capital A/c			Cr.		
Particulars	Saran ₹	Arun ₹	Karan ₹	Particulars	Saran ₹	Arun ₹	Karan ₹
To Karan's capital A/c	3,600	2,700	-	By balance b/d	60,000	50,000	50,000
To Karan's loan A/c	-	-	57,100	By reserve fund A/c	6,000	4,500	4,500
To balance c/d	70,800	58,100	-	By revaluation A/c	8,400	6,300	6,300
				By Saran's capital A/c	-	-	3,600
				By Arun's capital A/c	-	-	2,700
	74,400	60,800	57,100		74,400	60,800	57,100

				By balance b/d	70,800	58,100	-
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Balance sheet

Liabilities	₹	₹	Assets	₹	₹
Capital			Buildings	60,000	
Accounts:			Add: Appreciation	<u>20,000</u>	80,000
Saran	70,800		Machinery	40,000	
Arun	<u>58,100</u>	1,28,900	Add: Appreciation	<u>4,000</u>	44,000
Karan's loan		57,100	Investment		20,000
Sundry creditors		35,000	Stock	12,000	
			Less: Depreciation	<u>2,000</u>	10,000
			Debtors	25,000	
			Less: Provision for		
			bad debts	<u>2,000</u>	23,000
			Cash at Bank		44,000
		2,21,000			2,21,000

Note :

- i. As new profit sharing ratio and proportion of gain is not given, it is assumed that the continuing partners gain in their old profit sharing ratio of 4:3

- ii. Karan's share of goodwill = $21,000 \times \frac{3}{10} = ₹ 6,300$

Goodwill of Karan to be borne by

Saran : $6,300 \times \frac{4}{7} = ₹ 3,600$

Arun : $6,300 \times \frac{3}{7} = ₹ 2,700$

19. Rajesh, Sathish and Mathan are partners sharing profits and losses in the ratio of 3:2:1 respectively. Their balance sheet as on 31.3.2017 is given below

Liabilities	₹	₹	Assets	₹	₹
Capital accounts :			Premises		4,00,000
Rajesh	4,00,000		Machinery		4,20,000
Sathish	3,00,000		Debtors		1,60,000
Mathan	<u>2,50,000</u>	9,50,000	Stock		3,00,000
General reserve		1,20,000	Cash at bank		20,000
Creditors		50,000			

Bills payable		1,80,000			
		13,00,000			13,00,000

Mathan retires on 31st March, 2017 subject to the following conditions:

- Rajsh and Sathish will share profits and losses in the ratio of 3:2
- Assets are to be revalued as follows: Machinery ₹ 3,90,000, Stock ₹ 2,90,000, Debtors ₹ 1,52,000.
- Goodwill of the firm is valued at ₹ 1,20,000

Prepare necessary ledger accounts and the balance sheet immediately after the retirement of Mathan.

Solution:

Dr. Revaluation A/c Cr.

Particulars	₹	₹	Particulars	₹	₹
To machinery A/c		30,000	By loss on revaluation:		
To stock A/c		10,000	Rajesh's capital A/c	24,000	
To debtors A/c		8,000	(48,000 x 3/6)		
			Sathish's capital A/c	16,000	
			(48,000 x 2/6)		
			Mathan's capital A/c	<u>8,000</u>	48,000
			(48,000 x 1/6)		
		48,000			48,000

Dr. Capital A/c Cr.

Particulars	Rajesh ₹	Sathish ₹	Mathan ₹	Particulars	Rajesh ₹	Sathish ₹	Mathan ₹
To Mathan's capital A/c	12,000	8,000	-	By balance b/d	4,00,000	3,00,000	2,50,000
To revaluation A/c	24,000	16,000	8,000	By general reserve A/c	60,000	40,000	20,000
To Mathan's loan A/c	-	-	2,82,000	By Rajesh's capital A/c	-	-	12,000
To balance c/d	4,24,000	3,16,000	-	By Sathish's capital A/c	-	-	8,000

	4,60,000	3,40,000	2,90,000		4,60,000	3,40,000	2,90,000
				By balance b/d	4,24,000	3,16,000	-

Note :

i. Computing of gaining ratio:

Share gained = New share – Old share

$$\text{Rajesh} = \frac{3}{5} - \frac{3}{6} = \frac{18 - 15}{30} = \frac{3}{30}$$

$$\text{Sathish} = \frac{2}{5} - \frac{2}{6} = \frac{12 - 10}{30} = \frac{2}{30}$$

Therefore, the gaining ratio of Rajesh and Sathish is **3:2**

ii. Adjustment for goodwill :

Goodwill of the firm = ₹ 1,20,000

$$\text{Share of goodwill of Mathan} = ₹ 1,20,000 \times \frac{1}{6} = ₹ 20,000$$

It is to be adjusted in the capital accounts of Rajesh and Sathish in the gaining ratio 3:2

$$\text{Rajesh} = 20,000 \times \frac{3}{5} = ₹ 12,000$$

$$\text{Sathish} = 20,000 \times \frac{2}{5} = ₹ 8,000$$

Balance sheet

Liabilities	₹	₹	Assets	₹	₹
Capital			Premises		4,00,000
Accounts:			Machinery	4,20,000	
Rajesh	4,24,000		Less:		
Sathish	<u>3,16,000</u>	7,40,000	Depreciation	<u>30,000</u>	3,90,000
Mathan's loan		2,82,000	Debtors	1,60,000	
Creditors		50,000	Less:		
Bills payable		1,80,000	Depreciation	<u>8,000</u>	1,52,000
			Stock	3,00,000	

			Less:	<u>10,000</u>	2,90,000
			Depreciation		20,000
			Cash at Bank		
		12,52,000			12,52,000

Death of a partner:

20. Janani, Janaki and Jamuna are partners sharing profits and losses in the ratio of 3:3:1 respectively. Janaki died on 31st December, 2017. Final amount due to her showed a credit balance of ₹ 1,40,000. Pass journal entries if,
- The amount due is paid off immediately.
 - The amount due is not paid immediately.
 - ₹ 75, 000 is paid and the balance in future.

Solution :**Journal entries**

Date	Particulars	L.F	Debit ₹	Credit ₹
2017 Dec 1	a) Janaki's Executor A/c Dr. To bank A/c (Amount due paid immediately)		1,40,000	1,40,000
2017 Dec 1	b) Janaki's Executor A/c Dr. To Janaki's Executor's loan A/c (Amount due transferred to loan account)		1,40,000	1,40,000
2017 Dec 1	c) Janaki's Executor A/c Dr. To bank A/c To Janaki's Executor's loan A/c (₹ 75,000 paid and the balance transferred to loan account)		1,40,000	75,000 65,000

21. Varsha, Shanthi and Madhuri are partners, sharing profits in the ratio of 5:4:3. Their balance sheet as on 31st December 2017 is as under:

Liabilities	₹	₹	Assets	₹	₹
Capital accounts :			Premises		1,20,000
Varsha	80,000		Stock		40,000
Shanthi	60,000		Debtors		50,000
Madhuri	<u>20,000</u>	1,60,000	Cash at bank		18,000
General reserve		48,000	Profit and loss A/c (loss)		12,000
Sundry Creditors		32,000			
		2,40,000			2,40,000

On 1.1.2018, Madhuri died and on her death the following arrangements are made:

- Stock to be depreciated by ₹ 5,000
- Premises is to be appreciated by 20%
- To provide ₹ 4,000 for bad debts
- The final amount due to Madhuri was not paid

Prepare revaluation account, partners' capital account and the balance sheet of the firm after death.

Solution:

Dr.			Revaluation A/c			Cr.		
Particulars	₹	₹	Particulars	₹	₹			
To stock A/c		5,000	By premises A/c		24,000			
To debtors A/c		4,000						
To profit on revaluation:								
Varsha's capital A/c								
(15,000 x 5/12)	6,250							
Shanthi's capital A/c								
(15,000 x 4/12)	5,000							
Madhuri's capital A/c								
(15,000 x 3/12)	<u>3,750</u>	15,000						
		24,000			24,000			

Dr. Capital A/c Cr.

Particulars	Varsha	Shanthi	Madhuri	Particulars	Varsha	Shanthi	Madhuri
	₹	₹	₹		₹	₹	₹

To profit and loss A/c	5,000	4,000	3,000	By balance b/d	80,000	60,000	20,000
To Madhuri's executor's A/c	-	-	32,750	By general reserve A/c	20,000	16,000	12,000
To balance c/d	1,01,250	77,000	-	By Revaluation A/c	6,250	5,000	3,750
	1,06,250	81,000	35,750		1,06,250	81,000	35,750
				By balance b/d	1,01,250	77,000	-

Balance sheet

Liabilities	₹	₹	Assets	₹	₹
Capital			Premises	1,20,000	
Accounts:			Add: Appreciation	<u>24,000</u>	1,44,000
Varsha	1,01,250		Stock	40,000	
Shanthi	<u>77,000</u>	1,78,250	Less: Depreciation	<u>5,000</u>	35,000
Madhuri's executor's A/c		32,750	Debtors	50,000	
Sundry Creditors		32,000	Less: Bad debts	<u>4,000</u>	46,000
			Cash at Bank		18,000
		2,43,000			2,43,000

22. Vijayan, Sudhan and Suman are partners who share profits and losses in their capital ratio. Their balance sheet as on 31.12.2018 is as follows:

Liabilities	₹	₹	Assets	₹	₹
Capital accounts :			Building		80,000
Vijayan	70,000		Stock		45,000
Sudhan	50,000		Debtors		25,000
Suman	<u>30,000</u>	1,50,000	Cash at bank		20,000
General reserve		18,000	Cash in hand		15,000

Creditors		17,000			
		1,85,000			1,85,000

Suman died on 31.3.2019. On the death of Suman, the following adjustments are made:

- Building is to be valued at ₹ 1,00,000
- Stock to be depreciated by ₹ 5,000
- Goodwill of the firm is valued at ₹ 36,000
- Share of profit from the closing of the last financial year to the date of death on the basis of the average of the three completed years' profit before death.

Profit for 2016, 2017 and 2018 were ₹ 40,000, ₹ 50,000 and ₹ 30,000 respectively. Prepare the necessary ledger accounts and the balance sheet immediately after the death of Suman.

Solution:

Dr. Revaluation A/c Cr.

Particulars	₹	₹	Particulars	₹	₹
To stock A/c		5,000	By building A/c		20,000
To profit on revaluation:					
Vijayan's capital A/c					
(15,000 x 7/15)	7,000				
Sudhan's capital A/c					
(15,000 x 5/15)	5,000				
Suman's capital A/c					
(15,000 x 3/15)	<u>3,000</u>				
		15,000			
		20,000			20,000

Note :

- Computing of gaining ratio:

$$\text{New ratio} = 7:5 \text{ \& Old ratio} = 7:5:3$$

Share gained = New share – Old share

$$\text{Varsha} = \frac{7}{12} - \frac{7}{15} = \frac{35 - 28}{60} = \frac{7}{60}$$

$$\text{Sudhan} = \frac{5}{12} - \frac{5}{15} = \frac{25 - 20}{60} = \frac{5}{60}$$

Therefore, the gaining ratio of Rajesh and Sathish is **7:5**

ii. Adjustment for goodwill :

Goodwill of the firm = ₹ 36000

$$\text{Share of goodwill of Suman} = ₹ 36,000 \times \frac{3}{15} = ₹ 7,200$$

It is to be adjusted in the capital accounts of Varsha and Sudhan in the gaining ratio 7:5

$$\text{Varsha} = 7,200 \times \frac{7}{12} = ₹ 4,200$$

$$\text{Sudhan} = 7,200 \times \frac{5}{12} = ₹ 3,000$$

iii. Calculation of Suman's share of current year's profit:

$$\text{Average profit} = \frac{40,000 + 50,000 + 30,000}{3} = ₹ 40,000$$

$$\text{Suman's share of current year's profit} = 40,000 \times \frac{3}{12} \times \frac{3}{15} = ₹ 2,000$$

Dr. Capital A/c Cr.

Particulars	Vijayan ₹	Sudhan ₹	Suman ₹	Particulars	Vijayan ₹	Sudhan ₹	Suman ₹
To Suman's capital A/c	4,200	3,000	-	By balance b/d	70,000	50,000	30,000
To Suman's executor's A/c	-	-	45,800	By general reserve A/c	8,400	6,000	3,600
To balance c/d	81,200	58,000	-	By Revaluation A/c	7,000	5,000	3,000
				By Vijayan's capital A/c			4,200
				By Sudhan's capital A/c			3,000
				By profit and loss suspense A/c			2,000
	85,400	61,000	43,800		85,400	61,000	43,800
				By balance b/d	85,400	58,000	-

Balance sheet

Liabilities	₹	₹	Assets	₹	₹
Capital Accounts:			Building	80,000	
Vijayan			Add: Appreciation	<u>20,000</u>	1,00,000
Sudhan	81,200		Stock	45,000	
Suman's	<u>58,000</u>	1,39,200	Less: Depreciation	<u>5,000</u>	40,000
executor's A/c			Debtors		25,000
Creditors		45,800	Cash at Bank		20,000
		17,000	Cash in hand		15,000
			Profit and loss suspense A/c		2,000
		2,02,000			2,02,000