

Solutions to RSPL/1

1. Following are the two effects of retirement:

- (a) The partnership is reconstituted.
 (b) The remaining partner's share of profit increases.

2.
$$\begin{aligned} \text{Super Profit} &= \text{Average Profit} - \text{Normal Profit} \\ \text{Normal Profit} &= 18\% \text{ of } 20,00,000 \\ &= ₹ 3,60,000 \\ \text{Super Profit} &= 4,50,000 - 3,60,000 \\ &= 90,000 \\ \text{Goodwill} &= 90,000 \times 3 = ₹ 2,70,000 \end{aligned}$$

3. Revaluation Account is prepared on reconstitution of Partnership to revalue the assets and reassess the liabilities of a partnership firm. This is done so as the new/retiring partner is not at an advantage/disadvantage because of change in the value of assets and liabilities.

4. B retires and his share, $\frac{4}{15}$, is equally taken up by A and C, i.e., $\frac{2}{15}$ is gained by A and C each.

$$\text{New share} = \text{Old share} + \text{gain}$$

$$\text{New ratio of A} = \frac{8}{15} + \frac{2}{15} = \frac{10}{15}$$

$$\text{New ratio of C} = \frac{3}{15} + \frac{2}{15} = \frac{5}{15}$$

The new ratio is 2 : 1.

5. It enables the company to reduce its finance cost related to interest on debentures.

6. Share forfeiture (Credit Balance) $6 \times 250 = 1500$

Share forfeiture (Debit Balance) $4 \times 100 = 400$

Amount to be transferred to Capital Reserve

$$\therefore = \frac{1500}{250} \times 100 - 400 = ₹ 200$$

7. **Journal of Chandan Ltd.**

Date	Particulars	L.F.	Debit Amount (₹)	Credit Amount (₹)
	Bank A/c Dr.		6,25,000	
	To Debenture Application A/c			6,25,000
	(Being debenture application money received on 50,000 debentures @ ₹ 12.50 per debenture)			
	Debenture Application A/c Dr.		6,25,000	
	To 9% Debentures A/c			6,25,000
	(Being debenture application money transferred)			
	Debenture Allotment A/c Dr.		17,50,000	
	Discount on Issue of Debentures A/c Dr.		1,25,000	
	Loss on Issue of Debentures A/c Dr.		2,50,000	
	To 9% Debentures A/c			18,75,000
	To Premium on Redemption of Debentures A/c			2,50,000
	(Being allotment due on 50,000, 9% debentures of ₹ 50 each issued at a discount of 5% redeemable at a premium of 10%)			

Bank A/c	Dr.	17,50,000	
To Debenture Allotment A/c (Being allotment money received)			17,50,000

Values: Highlighted here are:

- (i) Generating employment
- (ii) Sensitivity towards conserving environment

8. Journal of M & M Ltd.

Date	Particulars	L.F.	Debit Amount (₹)	Credit Amount (₹)
(i)	Plant and Machinery A/c	Dr.	4,50,000	
	Furniture A/c	Dr.	80,000	
	Inventories A/c	Dr.	1,70,000	
	To L & K Ltd.			4,80,000
	To Capital Reserve A/c			30,000
	To Sundry Liabilities A/c			1,90,000
	(Being the business of L & K Ltd. purchased)			
(ii)	L & K Ltd.	Dr.	4,80,000	
	Discount on Issue of Debentures A/c	Dr.	50,000	
	To Bills Payable A/c			30,000
	To 9% Debentures A/c			5,00,000
	(Being purchase consideration paid partly through accepting a bill and partly by the issue of 5,000 , 9% debentures of ₹ 100 each at 10% discount))			

9. Journal of Z Ltd.

Date	Particulars	L.F.	Debit Amount (₹)	Credit Amount (₹)
(i)	5% Debentures A/c	Dr.	15,00,000	
	Premium on Redemption of Debentures A/c	Dr.	1,50,000	
	To Equity Share Capital A/c			15,00,000
	To Securities Premium Reserve A/c			1,50,000
	(Being 15,000, 5% debentures of ₹ 100 each redeemed at a premium of 10% by converting them into 15,000 equity shares of ₹ 100 each issued at a premium of 10%)			
(ii)	8% Debentures A/c	Dr.	9,00,000	
	To 12% Debentures A/c			7,20,000
	To Securities Premium Reserve A/c			1,80,000
	(Being 9,000, 8% debentures of ₹ 100 each converted into 7,200, 12% new debentures of ₹ 100 each at a premium of 25%)			

10.

Journal

Date	Particulars	L.F.	Debit Amount (₹)	Credit Amount (₹)
	C's Capital A/c To B's Capital A/c (Being C compensating B for the share of profit he gained)	Dr.	20,000	20,000
	Profit and Loss Suspense A/c To B's Capital A/c (Being B's shares of profit till his date of death allowed to him)	Dr.	12,500	12,500

Working Notes:

Calculation of gaining ratio :

$$A = \frac{1}{2} - \frac{3}{6} = \text{Nil}, C = \frac{1}{2} - \frac{1}{6} = \frac{2}{6}$$

∴ C gained B's Share.

$$\begin{aligned} \therefore \text{B's Share of goodwill} &= \frac{2}{6} \times 60,000 \\ &= 20,000 \end{aligned}$$

It is to be contributed by C only.

$$\text{B's Share of profit} = 1,50,000 \times \frac{2}{6} \times \frac{3}{12} = ₹ 12,500$$

11.

Journal

Date	Particulars	L.F.	Debit Amount (₹)	Credit Amount (₹)
(a)	Bank A/c To Suresh's Capital A/c (Being capital brought in by new partner)	Dr.	3,20,000	3,20,000
(b)	Bank A/c To Naresh's Capital A/c (Being additional capital brought in to make capital proportionate)	Dr.	80,000	80,000
(c)	Umesh's Capital A/c To Bank A/c (Being excess capital withdrawn by the partner)	Dr.	20,000	20,000

Working Notes:

Calculation of new ratio:

$$\text{Profit left after giving Suresh } 1/5 \text{ share of profit} = 1 - \frac{1}{5} = \frac{4}{5}$$

$$\text{Share of Naresh} = \frac{4}{5} \times \frac{5}{8} = \frac{5}{10}$$

$$\text{Share of Umesh} = \frac{4}{5} \times \frac{3}{8} = \frac{3}{10}$$

$$\text{Share of Suresh} = \frac{1}{5} = \frac{2}{10}$$

∴ New ratio is 5 : 3 : 2.

Total capital of the firm on the basis of Suresh's capital = 3,20,000 × 5 = ₹ 16,00,000

∴ New capital of Naresh = 16,00,000 × $\frac{5}{10}$ = ₹ 8,00,000. This is more than adjusted capital = ₹ 7,20,000

∴ ₹ 80,000 is brought in by Naresh.

New capital of Umesh = 16,00,000 × $\frac{3}{10}$ = ₹ 4,80,000. This is less than adjusted capital = ₹ 5,00,000

∴ ₹ 20,000 is withdrawn by Umesh.

12.

Journal

Date	Particulars	L.F.	Debit Amount (₹)	Credit Amount (₹)
	Mohan's Current A/c To Ravi's Current A/c (Being error committed now rectified)	Dr.	38,000	38,000

Working Note:**Adjustment Table**

Particulars	Ravi	Mohan
Profit wrongly distributed to be debited	2,52,000 (Dr)	2,52,000 (Dr)
Interest on Capital @ 12% p.a.	1,20,000 (Cr)	84,000 (Cr)
Salary	72,000 (Cr)	60,000 (Cr)
Profit to be distributed in the ratio 7 : 5 (5,04,000 – 3,36,000 = 1,68,000)	98,000 (Cr)	70,000 (Cr)
	2,90,000 (Cr)	2,14,000 (Cr)
Net adjustment to be made	38,000 (Cr)	38,000 (Dr)

13.

Journal

Date	Particulars	L.F.	Debit Amount (₹)	Credit Amount (₹)
(i)	Realisation A/c To Raghav's Capital A/c (Being unaccounted claim paid by Raghav)	Dr.	15,000	15,000
(ii)	Realisation A/c To Bank A/c (Being creditors paid two month prior to due date at a discount of 2% p.a.)	Dr.	89,700	89,700
(iii)	Bank A/c To Realisation A/c (Being assets realised)	Dr.	2,00,000	2,00,000
(iv)	Sarthak's Capital A/c To Prateek's Capital A/c (Being realisation expenses paid by Prateek on behalf of Sarthak)	Dr.	5,000	5,000

14. (a) Total discount to be written off = 12,000 × 5 = ₹ 60,000.

Calculation of discount on Issue of Debentures to be written off each year:

Year ended	Outstanding Debentures	Ratio	Amount of discount to be written off
31 st March 2017	12,000	4	$60,000 \times \frac{4}{15} = 16,000$
31 st March 2018	12,000	4	$60,000 \times \frac{4}{15} = 16,000$
31 st March 2019	9,000	3	$60,000 \times \frac{3}{15} = 12,000$
31 st March 2020	6,000	2	$60,000 \times \frac{2}{15} = 8,000$
31 st March 2021	3,000	1	$60,000 \times \frac{1}{15} = 4,000$
31 st March 2022	3,000	1	$60,000 \times \frac{1}{15} = 4,000$
		15	<u>60,000</u>

(b)

Journal of Balco Ltd.

Date	Particulars	L.F.	Debit Amount (₹)	Credit Amount (₹)
(i)	Balance in Statement of Profit and Loss Dr. To Debenture Redemption Reserve A/c (Being profit transferred to DRR to make the reserve equivalent to 25% of value of debentures)		2,50,000	2,50,000
(ii)	Debenture Redemption Investment A/c Dr. To Bank A/c (Being investment created to the extent of 15% of the amount of debentures to be redeemed)		1,50,000	1,50,000
(iii)	Bank A/c Dr. To Debenture Redemption Investment A/c To Interest Earned A/c (Being debenture redemption investment realised and interest received)		1,62,000	1,50,000 12,000
(iv)	9% Debentures A/c Dr. To Debentureholder's A/c (Being debentures due for redemption)		10,00,000	10,00,000
(v)	Debentureholder's A/c Dr. To Bank A/c (Being debentureholders paid)		10,00,000	10,00,000
(vi)	Debenture Redemption Reserve A/c Dr. To General Reserve A/c (Being DRR account transferred to general reserve)		2,50,000	2,50,000

15.

Journal

Date	Particulars	L.F.	Debit Amount (₹)	Credit Amount (₹)
(i)	Stock A/c Dr. Revaluation A/c Dr. To Machinery A/c (Being assets revalued)		5,000 3,000	8,000
(ii)	Bank A/c Dr. Bad Debts A/c Dr. To Sundry Debtors A/c (Being a debtor became insolvent and only 50p in a rupee received)		5,000 5,000	10,000
(iii)	Revaluation A/c Dr. To Bad Debts A/c (Being bad debts transferred to revaluation A/c)		5,000	5,000
(iv)	Golu's Capital A/c Dr. Molu's Capital A/c Dr. To Revaluation A/c (Being loss on revaluation distributed in old ratio)		4,800 3,200	8,000

(v)	Investment Fluctuation Fund A/c To Investment A/c To Golu's Capital A/c To Monu's Capital A/c (Being investment fluctuating fund distributed)	Dr.	10,000	2,000 4,800 3,200
(vi)	Monu's Capital A/c To Golu's Capital A/c (Being adjustment done for goodwill)	Dr.	250	250
(vii)	Monu's Capital A/c To Golu's Capital A/c (Being adjustment done for general reserve)	Dr.	500	500
(viii)	Workmen Compensation Reserve A/c To Golu's Capital A/c To Molu's Capital A/c (Being workmen compensation reserve distributed)	Dr.	8,000	4,800 3,200
(ix)	Golu's Capital A/c Molu's Capital A/c To Goodwill A/c (Being existing goodwill written off)	Dr. Dr.	9,000 6,000	15,000

Balance Sheet of newly constituted firm

Liabilities		Amount (₹)	Assets		Amount (₹)
Capitals	Golu	54,550	Machinery		30,000
	Molu	53,450	Investment		18,000
General Reserve		5,000	Sundry Debtors		25,000
			Stock		25,000
			Bank		15,000
		1,13,000			1,13,000

Working Notes:

Calculation of gaining/sacrificing ratio:

$$\text{Golu} = \frac{1}{2} - \frac{3}{5} = \frac{1}{10} \text{ (Sacrifice)}$$

$$\text{Molu} = \frac{1}{2} - \frac{2}{5} = \frac{1}{10} \text{ (Gain)}$$

16. Dr.

Revaluation A/c

Cr.

Particulars	Amount (₹)	Particulars	Amount (₹)
To Provision for Bad Debts A/c	300	By Plant and Machinery A/c	5,000
To Stock A/c	5,000	By loss transferred to:	
		Pranav	180
		Rahul	120
	5,300		300
			5,300

Dr.

Partners' Capital A/c

Cr.

Particulars	Pranav (₹)	Rahul (₹)	Sohan (₹)	Particulars	Pranav (₹)	Rahul (₹)	Sohan (₹)
To Revaluation A/c	180	120		By Balance b/d	40,000	30,000	
To Bank A/c	5,920	7,280		By Profit & Loss A/c	9,000	6,000	
To Balance c/d	49,500	33,000	30,000	By Premium for Goodwill A/c	6,600	4,400	
				By Bank A/c			30,000
	55,600	40,400	30,000		55,600	40,400	30,000

Balance Sheet

Liabilities	Amount (₹)	Assets	Amount (₹)
Creditors	20,000	Bank (5,000 + 30,000 + 11,000 – 5,920 – 7,280)	32,800
Capital A/cs:		Sundry Debtors	20,000
Pranav	49,500	Less: Provision	1,000
Rahul	33,000	Stock	20,000
Sohan	30,000	Plant and Machinery	40,000
	1,12,500	Patents	20,700
	1,32,500		1,32,500

Working Notes:

1. Valuation of Goodwill:

$$\text{Average Profit of last 4 years} = \frac{20,000 + 14,000 + 17,000 + 15,000}{4} = ₹ 16,500$$

$$\text{Goodwill} = 2.5 \times 16,500 = ₹ 41,250.$$

$$\text{Sohan's Share of Goodwill} = 41,250 \times \frac{4}{15} = ₹ 11,000$$

Calculation of new profit sharing ratio:

$$\text{New Profit Sharing Ratio of Pranav} = \frac{11}{15} \times \frac{3}{5} = \frac{33}{75}$$

$$\text{New Profit Sharing Ratio of Rahul} = \frac{11}{15} \times \frac{2}{5} = \frac{22}{75}$$

$$\text{Profit Sharing Ratio of Sohan} = \frac{20}{75}$$

New PSR = 33 : 22 : 20

$$\text{Total Capital on the basis of Sohan's Capital} = 30,000 \times \frac{15}{4} = ₹ 1,12,500$$

$$\therefore \text{Pranav's Capital} = 1,12,500 \times \frac{33}{75} = ₹ 49,500$$

$$\text{Rahul's Capital} = 1,12,500 \times \frac{22}{75} = ₹ 33,000$$

Or

Dr.	Revaluation A/c			Cr.
Particulars	Amount (₹)	Particulars	Amount (₹)	
To Stock A/c	2,300	By loss transferred to:		
To Furniture A/c	500	A	4,200	
To Plant and Machinery A/c	750	B	2,800	
To Building A/c	4,000	C	1,400	8,400
To Provision for Bad Debts A/c	850			
	8,400			8,400

Dr.	Partners' Capital A/c					Cr.		
Particulars	A (₹)	B (₹)	C (₹)	Particulars	A (₹)	B (₹)	C (₹)	
To A's Capital A/c		2,250	2,250	By Balance b/d	40,000	25,000	20,000	
To Revaluation A/c	4,200	2,800	1,400	By Profit & Loss A/c	2,250	1,500	750	
To Bank A/c	42,550			By B's Capital A/c	2,250			
To Balance c/d		52,500	37,500	By C's Capital A/c	2,250			
				By Bank A/c		31,050	20,400	
	46,750	57,550	41,150		46,750	57,550	41,150	

Balance Sheet

Liabilities	Amount (₹)	Assets	Amount (₹)
Sundry Creditors	12,500	Bank (25,650 + 31,050 +, 20,400 – 42,550)	34,550
Bills Payable	6,400	Bills Receivable	5,400
Capital A/cs:		Debtors	17,800
B	52,500	Less: Provision	850
C	37,500	Stock	20,000
		Furniture	3,000
		Plant and Machinery	9,000
		Building	20,000
	1,08,900		1,08,900

Working Notes:

$$\begin{aligned}
 \text{Profit sharing ratio of A, B and C} &= \frac{1}{2} : \frac{1}{3} : \frac{1}{6} \\
 &= 3 : 2 : 1
 \end{aligned}$$

A retires and his share is gained by B and C equally.

∴ Sacrificing ratio is 1 : 1 and the new ratio is

$$B = \frac{2}{6} + \frac{3}{12} = \frac{7}{12} \quad \text{and} \quad C = \frac{1}{6} + \frac{3}{12} = \frac{5}{12}$$

Total Capital of new firm = ₹ 90,000

$$B's \text{ new capital} = 90,000 \times \frac{7}{12} = ₹ 52,500$$

$$C's \text{ new capital} = 90,000 \times \frac{5}{12} = ₹ 37,500$$

17. Dr.

Bank A/c

Cr.

Particulars	Amount (₹)	Particulars	Amount (₹)
To Share Application A/c	5,40,000	By Balance c/d	9,70,000
To Share Allotment A/c	1,76,400		
To Share First and Final Call A/c	2,35,200		
To Share Capital	16,000		
To Securities Premium Reserve A/c	2,400		
	9,70,000		9,70,000

Journal of X Ltd.

Date	Particulars	L.F.	Debit Amount (₹)	Credit Amount (₹)
	Share Application A/c Dr.		5,40,000	
	To Share Capital A/c			3,20,000
	To Securities Premium Reserve A/c			1,60,000
	To Share Allotment A/c			60,000
	(Being application money transferred)			
	Share Allotment A/c Dr.		2,40,000	
	To Share Capital A/c			2,40,000
	(Being share allotment money due)			
	Share First and Final Call A/c Dr.		2,40,000	
	To Share Capital A/c			2,40,000
	(Being first and final call due)			
	Share Capital A/c Dr.		16,000	
	To Share Forfeiture A/c			7,600
	To Share Allotment A/c			3,600
	To Share First & Final Call A/c			4,800
	(Being 1,600 shares forfeited for non-payment of allotment and first and final call)			
	Share Forfeiture A/c Dr.		7,600	
	To Capital Reserve A/c			7,600
	(Being profit on reissue transferred to capital reserve)			

Or
Journal of Y Ltd.

Date	Particulars	L.F.	Debit Amount (₹)	Credit Amount (₹)
	Share Application A/c To Share Capital A/c To Share Allotment A/c (Being share application money transferred)	Dr.	2,50,000	2,00,000 50,000
	Share Allotment A/c To Share Capital A/c (Being share allotment due)	Dr.	5,00,000	5,00,000
	Share First and Final Call A/c To Share Capital A/c (Being call money due on 10,000 equity shares @ ₹ 30 each)	Dr.	3,00,000	3,00,000
	Share Capital A/c To Share Forfeiture A/c To Share Allotment A/c To Share First & Final Call A/c (Being 500 shares forfeited for non-payment of dues)	Dr.	58,000	28,000 12,600 17,400
	Share Forfeiture A/c To Share Capital A/c (Being 300 forfeited shares reissued))	Dr.	6,000	6,000
	Share Forfeiture A/c To Capital Reserve A/c (Being profit on reissue transferred to capital reserve)	Dr.	2,400	2,400

Dr. **Bank A/c** **Cr.**

Particulars	Amount (₹)	Particulars	Amount (₹)
To Share Application A/c	2,60,000	By Share Application A/c	10,000
To Share Allotment A/c	4,37,400	By balance c/d	9,94,000
To Share First and Final Call A/c	2,82,600		
To Share Capital A/c	24,000		
	10,04,000		10,04,000

18. Cash flow from investing activities shows the extent to which investment have been made in resources for generating revenue and cash flows in future.

19. It will be shown as inflow of cash in investing activities.

20. (a) Proprietary ratio assesses the solvency of the concern. It shows the extent to which fixed assets are financed by owner's fund.

(b)

Particulars	Main head	Sub head
(i) Finished goods	Current Assets	Inventories
(ii) Bank overdraft	Current Liabilities	Short-term Borrowings
(iii) Prepaid Insurance	Current Assets	Other Current Assets
(iv) Debenture Redemption Reserve	Shareholder's Fund	Reserves and Surplus

21.

Comparative Statement of Profit and Loss
for the year ended 31st March 2016 and 2017

Particulars	31.3.2016 (₹)	31.3.2017 (₹)	Absolute Change	% Change
Revenue from Operations	12,00,000	16,00,000	4,00,000	33.3%
Add: Other Income	2,00,000	4,00,000	2,00,000	100%
Total Revenue from Operations	14,00,000	20,00,000	6,00,000	42.8%
Expenses:				
Cost of Revenue from Operations	5,70,000	7,00,000	1,30,000	22.8%
Employees Benefit Expenses	2,00,000	2,50,000	50,000	25%
Finance Cost	80,000	1,00,000	20,000	25%
Total Expenses	8,50,000	10,50,000	2,00,000	23.5%
Profit Before Tax	5,50,000	9,50,000	4,00,000	72.7%

$$\text{Operating Profit Ratio} = \frac{\text{Operating Profit}}{\text{Revenue from Operations}}$$

$$\text{Operating Profit Ratio (2016)} = \frac{6,30,000}{12,00,000} \times 100 = 52.5\%$$

$$\text{Operating Profit Ratio (2017)} = \frac{10,50,000}{16,00,000} \times 100 = 65.6\%$$

22. (a) Credit analysis aims at judging the credibility of a concern. This analysis is done after offering credit to a new customer/a dealer.
- (b) (i) Increases, as the debt will increase by that amount and there is no change in equity.
(ii) No change, as bonus shares are issued by capitalising profits, there is no change in debts or equity.
(iii) Increases, as the shareholders funds decreases to the extend of loss incurred.
(iv) Increases, as debts increases and there is no change in equity.

23.

Cash Flow Statement

for the year ended 31.3.16 and 31.3.17

Sr. No.	Particulars	Details ₹	Total ₹
A.	Cash flows from Operating Activities:		
	Profit before Tax	2,25,000	
	Add : Depreciation on plant and machinery	1,20,000	
	Loss on sale of plant & machinery	5,000	
	Operating profit before working capital changes	3,50,000	
	Add: Decrease in Inventories	25,000	
	Less: Increase in Trade Receivables	(75,000)	
	Decrease in Trade Payables	(15,000)	
		2,85,000	
	Less: Tax paid	(80,000)	
	Cash from operating activities	2,05,000	2,05,000

B.	Cash flows from Investing Activities:		
	Purchase of Plant & Machinery	(4,00,000)	
	Sale of Plant & Machinery	50,000	
	Purchase of Investments	(2,00,000)	
	Cash used in investing activities	<u>(5,50,000)</u>	(5,50,000)
C.	Cash flows from Financing Activities:		
	Proceeds from Issue of Shares	2,00,000	
	Proceeds from taking Loan	1,00,000	
	Cash flows from Financing Activities:	<u>3,00,000</u>	3,00,000
D.	Net decrease in Cash and Cash Equivalent (A + B + C)		(45,000)
E.	Add : Opening Cash and Cash Equivalents		80,000
F.	Closing Cash and Cash Equivalents		<u>35,000</u>

Working Notes:

Calculation of Net Profit before Tax:

Surplus as per Statement of Profit and Loss	80,000
Add: Transfer to General Reserve	20,000
Add: Provision for Tax made	1,25,000
	<u>2,25,000</u>

Dr.		Provision for Tax A/c		Cr.	
Particulars	Amount (₹)	Particulars	Amount (₹)		
To Bank A/c (Tax Paid)	80,000	By Balance b/d	55,000		
To Balance c/d	1,00,000	By Statement of Profit and Loss	1,25,000		
	<u>1,80,000</u>		<u>1,80,000</u>		

Dr.		Plant & Machinery A/c		Cr.	
Particulars	Amount (₹)	Particulars	Amount (₹)		
To Balance b/d	15,00,000	By Accumulated Depreciation A/c	20,000		
To Bank A/c	4,00,000	By Bank A/c	50,000		
		By Statement of Profit and Loss	5,000		
		By Balance c/d	18,25,000		
	<u>19,00,000</u>		<u>19,00,000</u>		

Dr.		Accumulated Depreciation A/c		Cr.	
Particulars	Amount (₹)	Particulars	Amount (₹)		
To Plant & Machinery A/c	20,000	By Balance b/d	4,00,000		
To Balance c/d	5,00,000	By Statement of Profit and Loss	1,20,000		
	<u>5,20,000</u>		<u>5,20,000</u>		