Partnership		
Q.No	Answer	
	Type I-Basic	
1	Correct Option: B	
	P:Q:R=3:5:9	
	Hire charges paid by Q	
	5	
	$= \text{Rs}[680 \times \frac{5}{17}] \Rightarrow 40 \times 5 = \text{Rs } 200.$	
	Hence, option B is correct.	
2	Option C	
	Solution:	
	8p = 10q = 12r	
	4p = 5q = 6r	
	q = 4p/5 r = 4p/6 = 2p/3	
	P: Q: R = p: 4p/5: 2p/3	
	15:12:10	
	Q's share = 2590 * (12/37) = 70*12 = Rs. 840.	
3	Correct Option: A	
	Ratio of amount invested by P, Q, R	
	= 45k : 70k : 90k	
	= 9 : 14 : 18 Total profit = ₹ 164K	
	Total profit = \ 104K	
	Q's share = $\frac{14}{41}$ × 164k = 14 × 4k = ₹56k.	
	$QSSTIRTE = \frac{14 \times 4k}{41} \times 104k = 14 \times 4k = 300k.$	
	Hence, option A is correct.	
4	Correct Option: B	
	Profit ratio = Investment by Puneet × Time : Investment by Sumit × Time : Investment by Amit × Time = 11 × 3 : 16.5 × 3 : 8.25 × 3 = 11 : 16.5 : 8.25 = 44 : 66 : 33	
	Amit's share in profit =	
	$\frac{33}{143}$ × 19.5 = Rs 4.5 lakh	
	$\frac{143}{143} \times 19.5 = RS 4.5 lakn$	
	∴ 50% of Amit's share =	
	$\frac{1}{2}$ × 4.5 = Rs 2.25 lakh	
5	Hence, option B is correct. Correct Option: C	
	Let the total investment = Rs x	
	Mukul's investment = $x \times \frac{2}{7}$	
	Wakars investment = x x 7	
	0. 5:	
	Rest investment = $x - x \times \frac{2}{7} = \frac{5x}{7}$	
	Let Atul's investment = Rs a, Rahul's investment = Rs b	
	Rahul's investment + Atul's investment = $\frac{5x}{7}$	
	Randr's investment + Atur's investment = 7	
	$a + b = \frac{5x}{7}$	
	5x	
	$b = \frac{5x}{7} - a \dots 1$	
	According to the question,	
	$\frac{2x}{7}$ + a = b	
	7 ' " - "	

	$\frac{5x}{7} - a = \frac{2x}{7} + a$ (value of b is taken out from equation 1)
	$\frac{5x}{7} - \frac{2x}{7} = a + a$
	$\frac{3x}{7} = 2a$
	$a = \frac{3x}{14}$ = Atul's investment
	Rahul's investment = $x - \frac{3x}{14} - \frac{2x}{7}$
	$= \frac{14x - 3x - 4x}{14}$
	$=\frac{7x}{14}=\frac{x}{2}$
	Investment Ratio,
	Mukul: Atul: Rahul = $\frac{2x}{7}$: $\frac{3x}{14}$: $\frac{x}{2}$
	= 4:3:7
	As Atul's Profit = Rs.1530
	Total profit = $\frac{1530}{3}$ × 14 = Rs 7140
	Hence, option C is correct. Type II- Time is given
1	Answer: Option B
	Explanation: Let their investments be Rs. <i>x</i> for 14 months, Rs. <i>y</i> for 8 months and Rs. <i>z</i> for 7 months respectively.
	Then, $14x: 8y: 7z = 5:7:8$.
	Now, $\frac{14x}{8y} = \frac{5}{7} \iff 98x = 40y \iff y = \frac{49}{20}x$
	14x 5 112 16
	And, $\frac{14x}{7z} = \frac{5}{8} \iff 112x = 35z \iff z = \frac{112}{35}x = \frac{16}{5}x$.
	$x: y: z = x: \frac{49}{20}x: \frac{16}{5}x = 20:49:64.$
2	Option E
	Solution: Ratio of shares of profit of A: B: C is
	25300*7 : 25200*11 : 27500*7 23*7 : 252 : 25*7
	23:36:25
3	Total of profit of A and C is (23+25)/(23+36+25) * 33600 = Rs 19,200 Correct Option: B
	Ratio of the capital = $10000 \times 12 : 15000 \times 9 : 18000 \times 7$
	= 40 : 45 : 42 Chintu's profit is Rs 2100.
	42x = 2100
	x = 50 Difference between Ananya and Dhairya's profit = 45x – 40x
	$= 5x = 5 \times 50 = Rs 250$ Hence, option B is correct.
4	Correct Option: D
	Suppose P invested Rs. 5x for 8 months and Q invested 6x for y months then,

	$\frac{5x \times 8}{6x \times y} = \frac{2}{3} \Rightarrow y = \frac{40x \times 3}{6x \times 2}$	
	$6x \times y + 3 + 6x \times 2$	
	400	
	$y = \frac{120x}{12x} \Rightarrow y = 10.$	
	124	
	Hence, option D is correct.	
5	Option B	
	Solution:	
	Let N invest 'x' rupees so M will invest (x+250)	
	Total investment made by $M = (x+250)^*4$ and by $N = 6x$	
	According to the problem- $[[4(x+250) - 6x]/(1000 + 10x)]*1000 = 200$.	
	X = 200. Total investment = 200+250+200 = 650	
6	Option E	
	Solution:	
	Tarun's contribution in the business = $1-[(1/2)+(1/3)] = 1/6$	
	Prabhu's share : Sunny's share : Tarun's share	
	(1/4)*(1/2):(1/2)*(1/3):(1/6)*1 3:4:4	
	Tarun's share in profit = (4/11)*1,21,000 = Rs.44,000 Type III- After some time second partner joins	
1		
'	Correct Option: A Profit ratio investment ratio among Gita, Kanchan and Rekha	
	Gita's investment for 36 months: Kanchan's investment for 30 months: Rekha's investment for 24 months	
	$= 60000 \times 36 : 90000 \times 30 : 135000 \times 24 = 4 : 5 : 6$	
	Hence, option A is correct.	
2	Correct Option: D	
2	·	
	Let Q's Capital be Rs. x. Then = $\frac{4500 \times 12}{3x}$	
	JX	
	4500 v 12 3 4500 v 12 v 5	
	$=\frac{4500 \times 12}{3 \times} = \frac{3}{5} \Rightarrow X = \frac{4500 \times 12 \times 5}{3 \times 3}$	
	\Rightarrow 1500 x 4 x 5 \Rightarrow Rs. 30,000.	
	Hence, option D is correct.	
3	E	
4	Answer: Option B	
4	Explanation:	
	Aman : Rakhi : Sagar = (70,000 x 36) : (1,05,000 x 30) : (1,40,000 x 24) = 12 : 15 : 16.	
_		
5	Correct Option: E Shubham's Profit = 6050 - 2750 = 3300 Rs.	
	Shivam's profit = 2750 Rs.	
	Ratio of the profit = 3300 : 2750	
	= 6 : 5	
	Because the ratio of the capital is equals to the ratio of the profit then,	
	2250 \times 12 : 2500 \times $x = 6$: 5	
	$5(2250 \times 12) = 6(2500 \times x)$	
	x = 9 months	
	So Shivam invested after 3 months.	
	Hence, option E is correct.	
6	Option B	
-	Solution:	
	Ratio of shares of profit of	
	Arun : Vibha : Tisha	
	20000*4 + 23000*8 : 16000*4 + 19000*8 : 24000*8	
	=> 20 + 23*2 : 16 + 19*2 : 24*2	
	=> 11 : 9 : 8	
	So difference in profits of Arun and Tisha =	
	[latex s="1"]\frac {11 - 8}{11+9+8} * 26,880 = Rs 1880	
Type IV- Addition/Withdrawal of capital		
1	Option E	
	Solution:	
·		

	Ratio of shares of profit of
	Priya : Varun : Rekha
	2050*7 + 1750*5 : 2310*5 : 2730*5
	=> 2050 + 250*5 : 330*5 : 390*5
	=> 41+25 : 33 : 39
	=> 22 : 11 : 13
	So total profits of Varun and Rekha =
	{11 + 13}/{22+11+13} * 11,500 = Rs 6000
2	Correct Option: B
	P: Q: R = $(8000 \times 3 + 6000 \times 9)$: $(6000 \times 3 + 8000 \times 9)$: (11000×6)
	⇒ (24000 + 54000) : (18000 + 72000) : (6600)
	⇒ 78000 : 90000 : 66000
	⇒ 26 : 30 : 22
	⇒ 13 : 15 : 11
	∴ Difference of Q's & R's shares
	D (05100 15 05100 11)
	$= \text{Rs}(35100 \times \frac{15}{39} - 35100 \times \frac{11}{39})$
	⇒ Rs.(900 × 15 – 900 × 11) ⇒ 13500 – 9900 ⇒ Rs 3600.
	Hence, option B is correct.
3	Answer: Option A
	Explanation:
	$A: B = \begin{bmatrix} 4x \times 3 + \left(4x - \frac{1}{4} \times 4x\right) \times 7 \end{bmatrix}: \begin{bmatrix} 5x \times 3 + \left(5x - \frac{1}{5} \times 5x\right) \times 7 \end{bmatrix}$
	= (12x + 21x) : (15x + 28x)
	= 33x:43x
	= 33 : 43.
	. (33)
	\therefore A's share = Rs. $\left(760 \times \frac{33}{76}\right)$ = Rs. 330.
	(76)
4	Correct Option: D
	Initially, A's capital = Rs. x
	B's capital = Rs. $\frac{3x}{2}$
	Ratio of the equivalent capitals of A and B for 1 month
	$= (x \times 10 + \frac{3x}{4} \times 2) : (\frac{3x}{2} \times 8 + \frac{3x}{4} \times 4)$
	` 4 ' 2 4 '
	(40) 3X (10) (40) (20)
	$= (10x + \frac{3x}{4} \times 2) : (12x + 3x)$
	= 23 : 30
	A's share = $\frac{23}{53}$ × 53000 = ₹ 23000.
	Hence, option D is correct.
5	Option B
	Solution:
	A : B : C
	4000*4 6000*6 8000*8
	(4000-1000)*8 (6000+1000)*6 (8000-2000)*4
	= 40000 : 78000 : 32000
	20:39:16
	A = 20/(20+39+16) * 7500=2000
6	Option A
	Solution:
	Their ratio's 30000*12: (40000*2+30000*6) : (50000*3+40000*4)
	36:26:31
	Total profit is Rs 27900
	Then (36+26+31) 93 == 27900
	Diff of Q-R (31-26) 5 ? ==>Rs1500
1	1

Type V- Active and sleeping partner		
1	Option B	
	Solution:	
	Profit sharing ratio is 25000*12 : 60000*8=5:8	
	Z5000 12 : 6000 6=5.6 Total profit 100%	
	Edwin got 10% for Managing the business so remaining 90% is shared by both.	
	Edwin got 10%profit + 5/13 * 90%profit	
	0.1p + 5/13 * (0.9p) = 58,000	
	Then 5.8p/13=58000==>p=1,30,000.	
	Now Thomas profit is 1,30,000-58,000=72,000.	
2	Answer: Option B	
	Explanation:	
	For managing, A received = 5% of Rs. 7400 = Rs. 370. Balance = Rs. (7400 - 370) = Rs. 7030.	
	Ratio of their investments = (6500 x 6) : (8400 x 5) : (10000 x 3)	
	= 39000 : 42000 : 30000	
	= 13 : 14 : 10	
	(14)	
	\therefore B's share = Rs. $\left(7030 \times \frac{14}{37}\right)$ = Rs. 2660.	
3	Option C	
	Let total Profit be x. Amount received by Ratan (from the total profit) =120x12=1440=120x12=1440	
	Amount received by Ranit (from Ratan) as interest =22500×10/100=2250	
	Let total profit =2x+1440=2x+1440	
	Then, Ranit and Ratan gets xx as share of the profit.	
	Ranit's total income in the year = $x+2250$ Ratan's total income in the year = $x+1440-2250=x-810$ 2($x-810$)= $x+2250 \Rightarrow 2x-1620=x+2250 \Rightarrow x=3870$	
	Total yearly profit =2x+1440= Rs.9180	
4	Option D	
	Solution:	
	Profit received by N as working partner = 14.5% of Rs. 24000= Rs. 3480	
	Balance in profit = 24000-3480 = Rs. 20520	
	Ratio of M and N=1,80,000: 90,000==>2:1 Then M's share 2/3* 20520	
	=Rs13680	
	Type VI- Miscellaneous questions	
1	Correct Option: B	
	Profit earned by C = $1 - (\frac{1}{3} + \frac{1}{4}) = 1 - \frac{7}{12} = \frac{5}{12}$	
	7 3 4' 12 12	
	So,	
	$\frac{5}{12} = 5,000$	
	12 = 5,000	
	4 40 000	
	$\begin{array}{ccc} : & 1 \rightarrow & 12,000 \\ & & & & & & & & & & & & & & & & & $	
	$\therefore \text{ Profit received by A} = \frac{1}{3} \times 12,000 = \text{Rs. } 4,000$	
	Hence, option B is correct.	
2	Correct Option: D	
	Annual profit = 157300 A: B = 3: 2 \Leftrightarrow 6: 4	
	$A : C = 2 : 1 \Leftrightarrow 6 : 3$	
	A:B:C=6:4:3	
	B's share = $\frac{4}{13} \times 157300 = 4 \times 12100 = 48400/$	
3	Hence, option D is correct. Correct Option: D	
	Saurabh's investment = x, Sanjay' investment = x × 75%,	
	Sanjay's investement is 80% of the Shubham's investment (x × 75%)	
	Hence, Shubham's investment = x x 75% ÷ 80%	

	Ratio of Saurabh : Sanjay : Shubham = $x : x \times 75\% : x \times 75\% \div 80\%$
	$= x \times 80\% : x \times 80\% \times 75\% : x \times 75\%$
	= 16:12:15
	Shubham's profit = 10500 Rs.
	$= 10500 \div 15 \times 43$
	= 30100 Rs.
	Hence option D is correct
4	Answer: Option D
	Explanation:
	Ratio of initial investments = $\left(\frac{7}{2} : \frac{4}{3} : \frac{6}{5}\right)$ = 105 : 40 : 36.
	(2 3 5)
	Let the initial investments be 105x, 40x and 36x.
	150
	$ \cdot \cdot \cdot A : B : C = \left(105x \times 4 + \frac{150}{100} \times 105x \times 8 \right) : (40x \times 12) : (36x \times 12) $
	100
	= $1680x : 480x : 432x = 35 : 10 : 9$. Hence, B's share = Rs. $\left(21600 \times \frac{10}{54}\right)$ = Rs. 4000.
	(10)
	Hence, B's share = Rs. $21600 \times \frac{1}{54}$ = Rs. 4000.
	3 2
5	Answer: Option B
	Explanation:
	Let the total profit be Rs. 100.
	After paying to charity, A's share = Rs. $\left(95 \times \frac{3}{5}\right)$ = Rs. 57.
	If A's share is Rs. 57, total profit = Rs. 100.
	(100
	If A's share Rs. 855, total profit = $\left(\frac{100}{57} \times 855\right) = 1500$.
	(5)
6	Correct Option: D
	Current Ratio = 3:5
	Ratio of Next year = $3 \times 110\%$: $5 \times 88\% = 3$: 4
	A's Profit = Rs. 3450
	Total Profit = $3450 \div 3 \times 7 = \text{Rs. } 8050$
	Hence, option D is correct.
7	
/	Correct Option: D
	Azad invested Rs 55000 for a year and Rs 65000 for the next year.
	Hind invested Rs 70000 for 8 months and Rs 60000 for the next year.
	Capital Ratio = $55000 \times 12 + 65000 \times 12 : 70000 \times 8 + 60000 \times 12$
	= 660000 + 780000 : 560000 + 720000
	= 1440000 : 1280000 = 9 : 8
	Let total profit = Rs x
	Azad's profit = $x \times 50\% \times 50\% + x \times 50\% \times 9/17$
1	y Qy
	$32375 = \frac{x}{4} + \frac{9x}{24}$
	$32375 = \frac{x}{4} + \frac{9x}{34}$
	$32375 = \frac{x}{4} + \frac{9x}{34}$ $32375 = \frac{35x}{68}$
	$32375 = \frac{35x}{68}$
	$32375 = \frac{35x}{68}$ $x = 62900$
8	$32375 = \frac{35x}{68}$ $x = 62900$ Hence, option D is correct.
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	Ratio of investments in 3^{rd} quarter $-3:2:3$, so let amounts $-3y$, $2y$, $3y$ In last quarter, respective amount is double then in 2^{nd} quarter, so amounts $-2x$, $8x$, $4x$ In the last quarter the ratio of investments was same as in 2^{nd} quarter. — this is not required to
	solve question.
	Given:
	(2000 + 2x + 3y) = 1400 + (800 + x + 3y)
	Solve, x = Rs 200
	Now ratio of profit share —A:B:C is
	800*3 + x*3 + 3y*3 + 2x*3 : 1600*3 + 4x*3 + 2y*3 + 8x*3 : 2000*3 + 2x*3 + 3y*3 + 4x*3
	3 gets cancelled, gives
	(800+3x+3y): (1600+12x+2y): (2000+6x+3y)
	Put x = 200 gives
	1400+3y: 4000+2y: 3200+3y
	Now given
	(4000+2y)/(1400+3y + 4000+2y + 3200+3y) = 66/153
	(2000+y)/(4300+4y) = 22/51
	Solve, y = Rs 200
	So now the total investment is— $(800+3x+3y) + (1600+12x+2y) + (2000+6x+3y) = (4400 + 21x + 8y)$
	put x = 200, y = 200, total investment = Rs 10,200
10	Option D
	Solution:
	800, 1600, 2000 as it is for 3 months, and then for next 9 months x, 4x and 2x
	So ratio of profit share – A: B: C is
	800*3 + 200*9 : 1600*3 + 800*9 : 2000*3 + 400*9
	7:20:16
	So profit share of A = 7/43 * 19350 = Rs 3150
11	Answer: Option E
	Explanation:
	Let us name Ravi, Gagan and Nitin by R, G and N respectively.
	I. R : G : N = 2 : 4 : 7.
	II. N = 8750
	From I and II, we get:
	When $N = 7$, then $G = 4$.
	When N = 8750, then G = $\left(\frac{4}{7} \times 8750\right)$ = 5000.
	Thus, both I and II are needed to get the answer.
10	· Correct answer is (E).
12	Answer: Option E
	Explanation:
	Let the total investment be Rs. x.
	Then, R = $\left(\frac{x}{4}\right)$
	(4)
	$R + V = \left(\frac{75}{100} \times x\right) = \frac{3x}{4}$
	$ R + V = \left \frac{1}{100} \times X \right = \frac{1}{4}$
	$V = \left \frac{\partial X}{\partial x} - \frac{X}{x} \right = \frac{X}{x}$
	(4 4) 2
	$(x \ x) \ x$
	$V = \left(\frac{3x}{4} - \frac{x}{4}\right) = \frac{x}{2}.$ $\therefore A = x - \left(\frac{x}{4} + \frac{x}{2}\right) = \frac{x}{4}$
	R: A: $V = \frac{x}{4} : \frac{x}{4} : \frac{x}{2} = 1 : 1 : 2$.
	1 1 2
	Thus, both I and II are needed to get the answer.
	· Correct answer is (E).