## **SOLUTIONS**

Total share, 39 unit = 
$$\frac{5200}{13} \times 39$$

82 unit 
$$\rightarrow \frac{9000}{45} \times 82$$

$$A(37) \rightarrow \frac{9000}{45} \times 37 = Rs.7400$$

(d) Let the capital of three partners be x, y, z.

ATO.

$$x \times 7 : y \times 8 : z \times 14 = 8 : 7 : 5$$

$$7x:8y:14z=8:7:5$$

$$x: y: z = \frac{8}{7}: \frac{7}{8}: \frac{5}{14}$$

$$x: y: z = 64:49:20$$

5. (c)

13 unit → 5200

$$A - C = 4 \text{ unit } \rightarrow 4 \times 400 = 1600$$

(b) Let the share of C = x

$$(x + 8000) : (x + 4500) : x$$

$$x + 8000 + x + 4500 + x = 75500$$

$$3x + 12500 = 75500$$

$$3x = 63000$$

$$x = 21000$$

A's Share = 
$$x + 8000 = 29000$$

B's Share = 
$$x + 4500 = 25500$$

C's Share = 
$$x = 21000$$

Now,

Total ,151 unit → 45300

A's profit 
$$\rightarrow \frac{45300}{151} \times 58 = 17400$$

Total Profit = Rs. 5820

Profit share of 'C'

$$=\frac{5820}{(65+54+75)}\times75$$

22.5

$$=\frac{5820}{194} \times 75 = \text{Rs.} 2250$$

(c)

Total →

90

108

Total profit = 
$$\frac{24000}{22.5} \times 220.5$$
  
= Rs.235200

9. **(b)** A : B : C = 
$$\left(\frac{2}{5}:\frac{3}{4}:\frac{5}{8}\right) \times 40$$

25×12=300

Profit of B = 
$$\frac{2,82,100}{868} \times 312$$

$$= Rs.1,01,400$$

$$\frac{9x - 500}{11x + 500} = \frac{4}{6}$$

$$\Rightarrow 54x - 3000 = 44x + 2000$$

$$\Rightarrow 10x = 5000$$

$$\Rightarrow x = 500$$

Sum of share of (B and C) in beginning = 
$$(6x + 11x)$$

$$= 17x = 17 \times 500 = \text{Rs. } 8500$$

$$= 10 : \frac{15}{2} = 4 : 3$$

We know, Capital 
$$\propto P \times \frac{1}{T}$$

12.	(d) A 112000×12	B 80000 × 8	8 7	C 72000×6	l .	Profit of B = $\frac{1}{5} \times 35 = 7$ unit Profit of C = $35 - 5 - 7 = 23$ unit		The profit share of C is more than that of B by= $(4-2) \times Rs$ . 2250 = Rs 4500
	=1344000	= 64000 72000 ×	0 = 2 6	= 432000 54000 × 2 = 128000		Capital of A and B are x and y respectively.  We know, Capital × Time = Profit	15.	(a) A B C 100 400 400
	Ratio of Total Capital of A, B and C is				$\Rightarrow 5x: 7y: 23$ $5x = 5$		200 200 400 400 100 400	
	A :	В	:	С		ATQ, $\frac{5x}{4600 \times 9} = \frac{5}{23}$ On solving, $x = 9 \times 200 = \text{Rs. } 1800$	800 50 400 1500 750 1600 Ratio of profit,1500 : 750 : 1600	AND ADDRESS OF THE PARTY OF THE
	1344000	784000	Č	560000	00000			1500 750 1600
	12 :	7	:	5		(b) Let the total capital be 9 unit.  A B C		
	Total Profit = $\frac{9800}{7} \times 24 = 33600$			= 33600	I 3:2:4 T 1:1:1	= 30 : 15 : 32		
	(a) Let the total profit be 35 unit				9	Profit 3 : 2 : 4 9 unit → Rs. 20,250		Total profit = $\frac{4,50,000}{15} \times 77$
	Profit of A = $\frac{1}{7}$ × 35 = 5 unit			unit	1 unit → Rs. 2250			= 23,1 Lakh