S1. Ans.(c)
Sol.

A : B : C

(2000×4+3000×8) : (19000×4+15000×8) : [15000×4+15750×8]

= (24000 + 8000) : (76000 + 120000) : (60000 + 126000)

= 32000 196000 186000

= 16 : 98 : 93

Total profit = 232047 Rs.

B's share profit = $232047 \times \frac{98}{207} = 109858$

S2. Ans.(b)
Sol. Profit = capital × Time

Time = $\frac{Profit}{Capital}$

Akhilesh: Prateek: Dimple

Profit = 60 : 55 : 24

Capital = 5 : 5 : 4

Time = 12 : 11 : 6

Hence, a : b : c = 12 : 11 : 6

S3. Ans(a)
Sol:

Anurag : Bhargav : Chand

650000 : 50000 : 55000

13 : 10 : 11 ← Capital ratio

12 : 12 – x : 9 – x ← Time ratio

156 : 120 – 10x : 99 – 11x ← profit ratio

Given 50% = 156,
Then,
120 – 10x + 99 – 11x = 156
219 – 21x = 156
x = 3
Time for Bhargav = 9 months, Time for Chand = 6 months
Anurag invested alone in the business for 3 months.

S4. Ans.(c)
Sol. Let total capital = 100

P Q R

68 12 20

R's share = $\frac{65496}{100} \times 20$

= 13099.2

S5.Ans(d)

Sol: According to question

Parnav	:	Abhinav	:	Reshma
71500	:	55000	:	60500
13:	10	:11		

(let Abhinav worked for x months then Reshma worked for (x-3) months)

12 : x x-3

We have 50%= $13 \times 12 = 156$

Remaining 50% got Abhinav and Reshma

Then, 10x + 11x-33=156

X=9

Hence Parnav alone financed the business= 12-9= 3months

S6. Ans.(c)

Sol.

A	:	B
$2 \times 10 + \frac{3}{2} \times 2$	:	$1 \times 8 + \frac{1}{2} \times 4$
23	:	10

S7. Ans.(a)

Sol. Data not sufficient to solve.

S8. Ans.(b)

Sol.

A	B	C
5×6	7×6	3×6
10×6	3.5×6	3×6

90 : 63 : 36

10 : 7 : 4 $\xrightarrow{\times 19000}$ 76000

10 : 7 : 4 = 21 $\xrightarrow{\times 19000}$ 3,99,000

S9. Ans.(b)

Sol. According to Question

$6x \times 4 + \left(6x - \frac{9x}{12}\right) \times 8 : 5x \times 12 : 4x \times 12$

$24x + 42x : 60x : 48x$

$11 : 10 : 8$

Profit Share of A = $\frac{11}{29} \times 27724$ = Rs. 10516

S10. Ans (b)

Sol: Let A's initial investment= 4z, B's initial investment= 5z, and C's initial investment=3z

After 6 months, A's investment= 4z+50% of 4z=6z

After 4 months, B's investment= 5z+20% of 5z=6z

After 7 months, C's investment= 3z-(3z/3)=2z

Whole year investment of:-

A= (4z×6)+(6z×6)= 60z

B= (5z×4)+(6z×8)=68z

C= (3z×7)+(2z×5)=31z

C's profit= Rs. 1860

B's profit= Rs. $\frac{1860}{31} \times 68 = Rs.4080$

A's profit= Rs. $\frac{1860}{31} \times 60 = Rs.3600$

Total profit= ₹ 1860+4080+3600= ₹ 9540