## **Solutions**

$$B = \frac{75000}{5} \times 3 = 45000$$

2. (B) A B  

$$4.5 9.9$$
  
Eff.  $11 5$   

$$A = \frac{80000}{16} \times 11 = 5000 \times 11 = 55,000$$

3. (C) 
$$4A - 63$$
  
 $7A + B - 36$  252  
So B's efficiency = 3  
B's Share =  $5950 \times \frac{3}{7} = 2550$ 

Swati Priya Efficiency 3: 2 total work = 6(3 + 2) = 30

$$T_{\text{Priya}} = \frac{30}{2} = 15 \text{ days}$$

 $T_{Rathi} = 15 + 5 = 20 \text{ days}$ 

So, Swati : Priya : Rathi efficiency 3 : 2 :  $\frac{30}{20}$  = 6 : 4 : 3

So, Total wages =  $\frac{13}{6}$  × 1800.75 = ₹ 3901.62

5. (C) Total work = 120
A - 8 - 15
B - 10 - 12
C - 12 - 10
A : B : C
W/c 15 : 12 : 10
B का हिस्सा = 
$$\frac{7400}{37} \times 12 = 2400$$

6. (A) 
$$A-6$$
  $B-8$   $120$   $15$   $C-15$   $8$ 

A's share = 
$$\frac{20}{43} \times 94.60 = 44$$
  
B's share =  $\frac{15}{43} \times 94.60 = 33$   
C's share =  $\frac{8}{43} \times 94.60 = 17.60$ 

7. (A) 
$$4A-27$$
  
 $2B-54$  108  
 $9(A+B+C)-12$   
Now efficiency of  $C=9-(2+4)=3$ 

Share of C = 
$$4320.06 \times \frac{3}{9}$$
 = 1440.06

8. (D) Sandy + Mandy = 8/13  
Andy—5/13  
Share of Andy = 
$$\frac{2626 \times 5}{13}$$
 = ₹ 1010

9. (D) 
$${4 \atop 3}$$
 B  ${20 \atop 2}$  60

let A & B worked for x days and C worked for y days

$$\Rightarrow (4 + 3) x + 2y = 60$$
  
\Rightarrow 7x + 2y = 60 \qquad \tag{...(i)}  
And

$$\frac{(3x - 2y)}{(7x + 2y)} \times 18000 = 6000$$

by eq. (i)

$$\frac{\left(3x-2y\right)}{60}\times3=1$$

$$\Rightarrow 3x - 2y = 20 \qquad ...(ii)$$

by eq. (i) and eq. (ii)

$$10x = 80$$

$$\Rightarrow x = 8 \text{ days}$$

50, A worked for 6 days

Let A and B worked for x days and C worked for y days.

$$\Rightarrow$$
 7x + 2y = 60