# HW - Chapter 10 - Working Capital - Q1

# 1. Raw Material Storage Period (R)

- = Average Stock of Raw Material ÷ Annual Consumption of Raw Material x 365
- = (Rs.45+Rs.65) / 2 ÷ 380 x 365 = 52.83 or 53 days

Annual Consumption of Raw Material = Opening Stock + Purchases - Closing Stock

= Rs.45 + Rs.400 - Rs.65 = Rs.380 lakh

#### 2. WIP Conversion Period (W)

- = Average Stock of WIP ÷ Annual Cost of Production × 365
- = (Rs.35+Rs.51)/2 ÷ 450 x 365 = 34.87 or 35 days

### 3. Finished Stock Storage Period (F)

- = Average Stock of Finished Goods ÷ Cost of Goods Sold × 365
- = (Rs.60+Rs.70)/2 ÷ 525 x 365 = 45.19 or 45 days.

#### 4. Receivables (Debtors) Collection Period (D)

- = Average Receivables ÷ Annual Credit Sales x 365
- = (Rs.112+Rs.135)/2 ÷ 585 = 77.05 or 77 days

# 5. Payables (Creditors) Payment Period (C)

- = Average Payables for materials ÷ Annual Credit purchases × 365
- = (Rs.68+Rs.71)/2 ÷ 400 x 365 = 63.41 or 64 days

# (i) Net Operating Cycle Period

= R + W + F + D - C = 53 + 35 + 45 + 77 - 64 = 146 days

# (ii) Number of Operating Cycles in the Year

= 365 ÷ 146 = 2.5 times

# (iii) Amount of Working Capital Required

= Annual Operating Cost ÷ Number of Operating Cycles = Rs.325 ÷ 2.48 = Rs. 130 lakh