

CHAPTER No.2 · ESTIMATION OF WORKING CAPITAL

Points to be discussed :

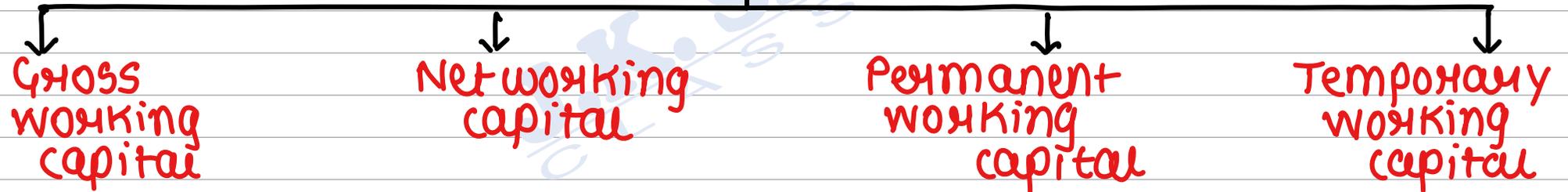
- Introduction
- Types of working capital
- Operating cycle
- Estimation of working capital
- Types of current Asset policies
- Maximum permissible Bank Finance .

→ Introduction

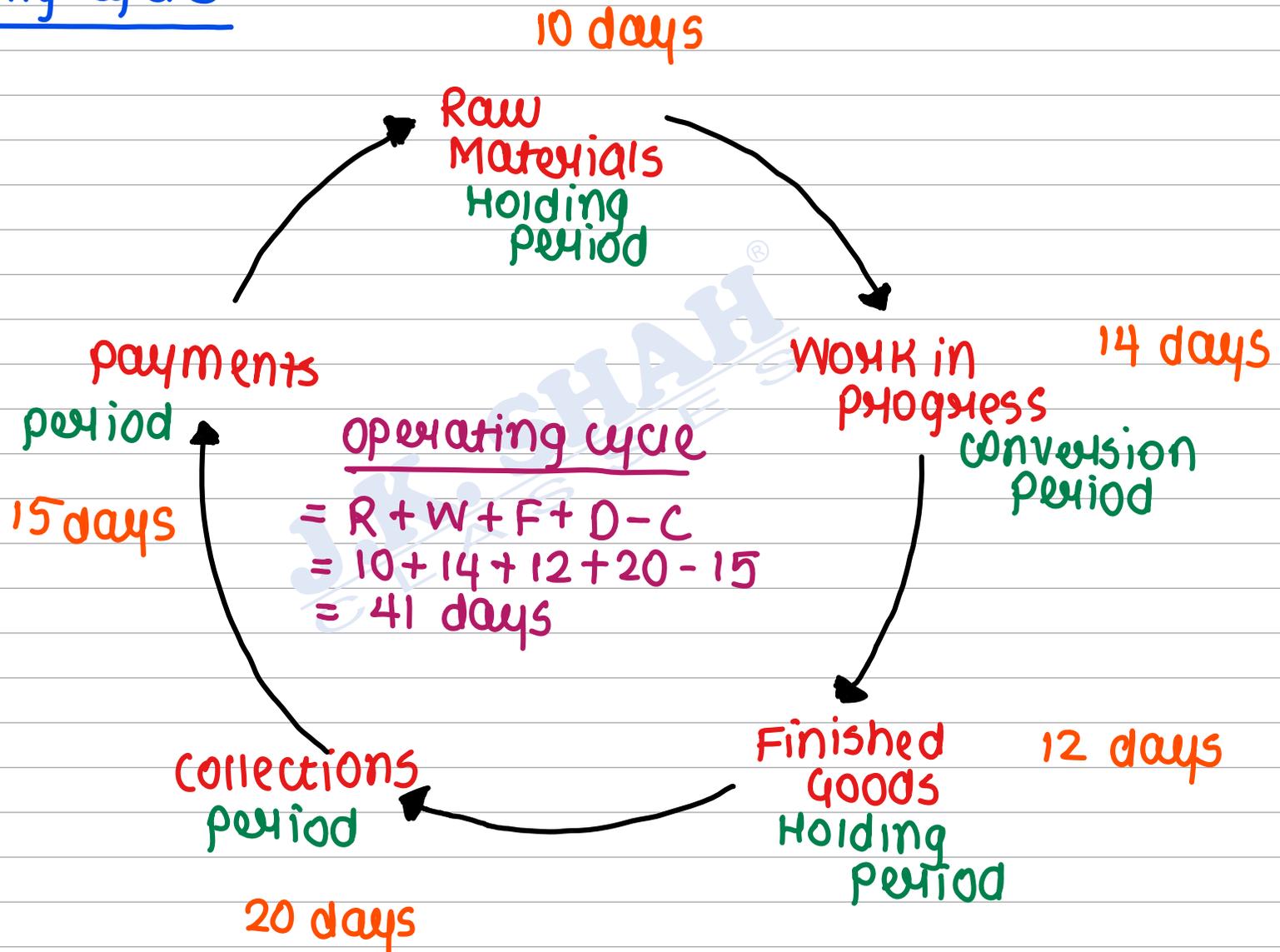
Working capital = Current Assets - Current Liabilities

Current Ratio = $\frac{\text{Current Assets}}{\text{Current Liabilities}}$

→ Types of working capital



→ operating cycle



Calculation of Factors of Operating Cycle

1. Raw Materials Holding period

$$= \frac{\text{Average stock of Raw Materials}}{\text{Raw Materials consumed}} \times \frac{365}{360/52/12}$$

2. Work in Progress Conversion period

$$= \frac{\text{Average stock of work in progress}}{\text{Cost of production}} \times \frac{365}{360/52/12}$$

3. Finished Goods Holding period

$$= \frac{\text{Average stock of Finished Goods}}{\text{Cost of Goods sold}} \times \frac{365}{360/52/12}$$

4 Debtors collection period

$$= \frac{\text{Average Debtors}}{\text{Net credit sales}} \times 365 / 360 / 52 / 12$$

5 Creditors payment period

$$= \frac{\text{Average Creditors}}{\text{Net credit purchases}} \times 365 / 360 / 52 / 12$$

→ Estimation of working capital

Income statement

Raw Materials consumed	xx
Direct labour	xx
production overheads	xx
	<hr/>
Factory cost	xx
<u>Add</u> : opening stock of WIP	xx
<u>Less</u> : closing stock of WIP	xx
	<hr/>
Cost of production	xx
<u>Add</u> : opening stock of FG	xx
<u>Less</u> : closing stock of FG	xx
	<hr/>
Cost of Goods sold	xx

Office & administrative overheads	xx	
Selling & distribution overheads	xx	
	<hr/>	
Cost of sales	xx	
<u>Add: profits</u>	xx	
	<hr/>	
Sales	xx	

Statement of Estimation of working capital

CURRENT ASSETS

1. Inventories		
• Raw Materials	xx	
• Work in progress	xx	
• Finished goods	xx	xx
	<hr/>	
2. Debtors		xx
3. Cash and Bank balances		xx

4. Other Current Assets

xx

GROSS WORKING CAPITAL

xxx

(-) CURRENT LIABILITIES

1. Creditors

xx

2. Outstanding Expenses

xx

3. Other Current Liabilities

xx

- xxx

NET WORKING CAPITAL

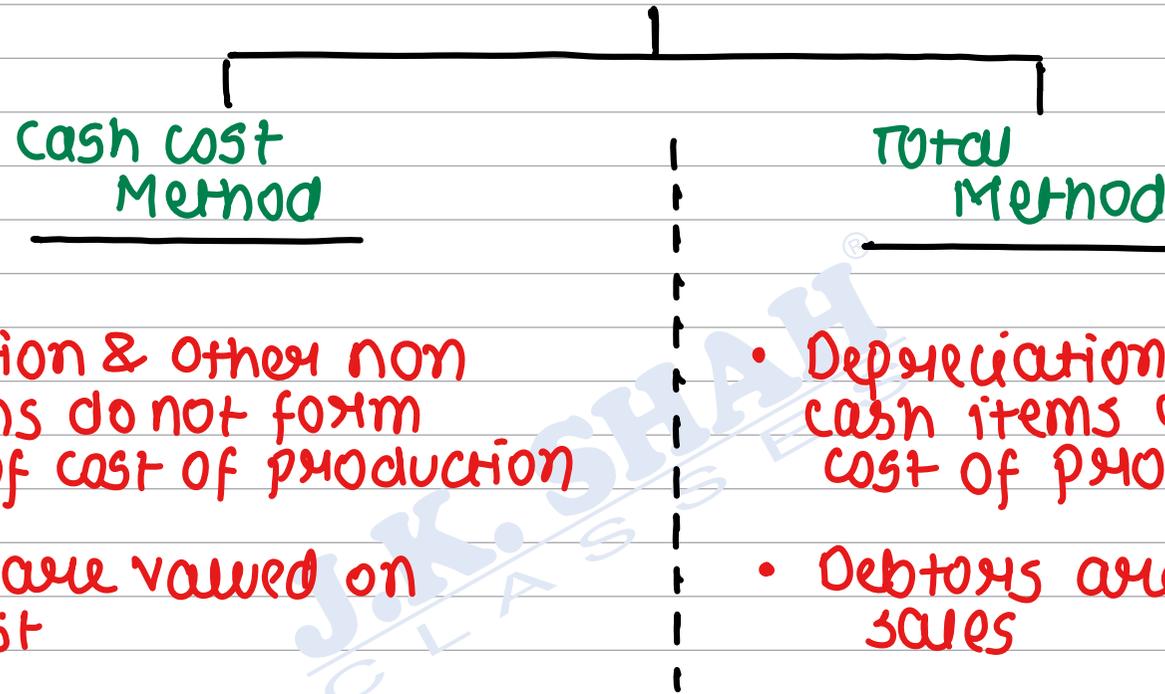
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Add: safety margin

Assumptions

1. All the operating activities accrue evenly during the period.
2. In absence of information with respect to opening stock, it is assumed to be the same as closing stock.
This means —
 - Raw Materials consumed = Raw Materials purchases
 - Factory cost = cost of production
 - cost of production = cost of goods sold
3. If opening stock and closing stock is not same, then —
 - R.M consumed = opening stock + purchases - closing stock
of RM of RM.
 - cost of production = opening stock + Factory - closing stock
of WIP cost of WIP
 - cost of goods sold = opening stock + cost of - closing stock
of FG production of FG

Methods to Estimate Working Capital



- Depreciation & other non cash items do not form a part of cost of production
- Debtors are valued on Total cost

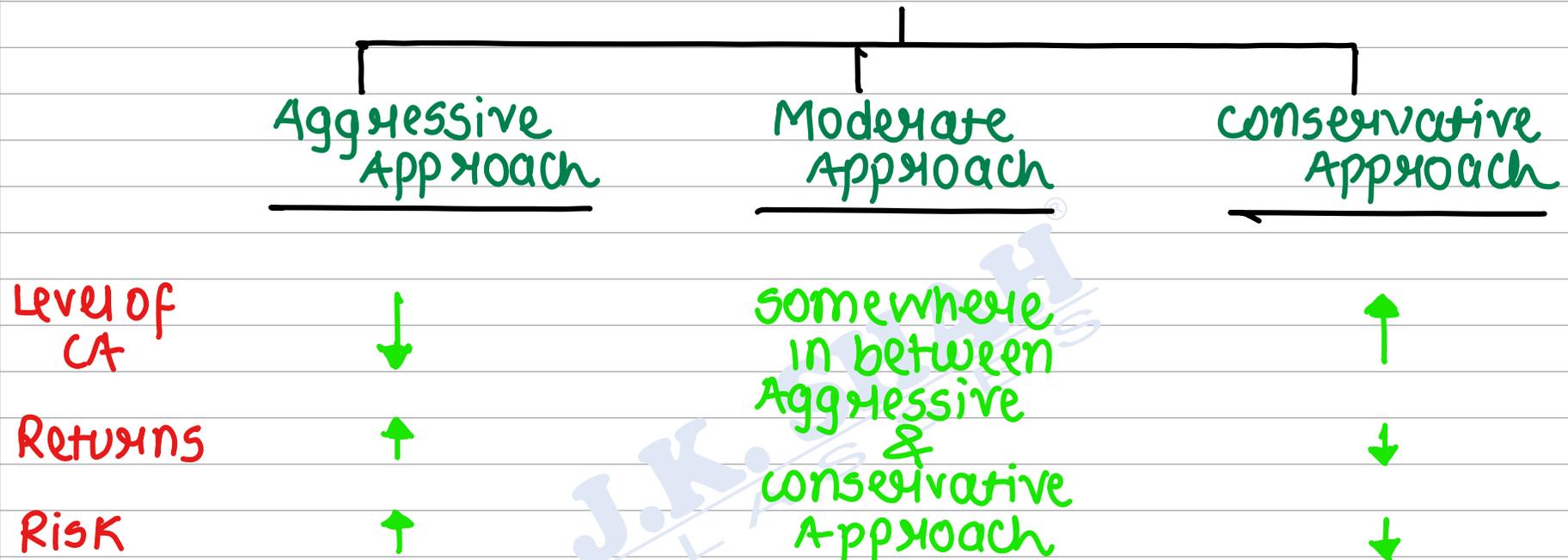
- Depreciation & other non cash items are included in cost of production
- Debtors are valued on sales

Valuation summary

Factor	Valued on...
1. Raw Materials stock	Raw Materials consumed
2. Work in progress stock	100 % of Raw Materials + 50% of Labour * + 50% of overheads *
* when no completion stage is given in question However, if completion stage is given, then that percentage to be applied on Labour and overheads	
3. Finished Goods stock	Total cost of production
4. Debtors	$\frac{\text{Sales}}{\text{Total cost}}$
	
5. Creditors	Raw Materials purchases
6. Outstanding Expense	That particular expense

Note: In all the above items, non cash items like depreciation will be ignored if we follow cash cost approach.

→ WHYENT ASSETS policies



→ Maximum permissible Bank Finance

Tandon committee Norms

Method 1 · $MPBF = 75\% \text{ of Net working capital i.e.}$
 $= 75\% \text{ of } (CA - CL)$

Method 2 · $MPBF = [75\% \text{ of Gross working capital}] - \text{current liabilities}$
 $= (75\% \text{ of } CA) - CL$

Method 3 · $MPBF = [75\% \text{ of } (\text{current Assets} - \text{core current Assets})] - \text{current liabilities}$
 $= [75\% \text{ of } (CA - CCA)] - CL$

