CMA INTERMEDIATE

COST ACCOUNTING



NOTES
Let's Break the Cost

Relevant for New Syllabus Students

By Hardik Mishra

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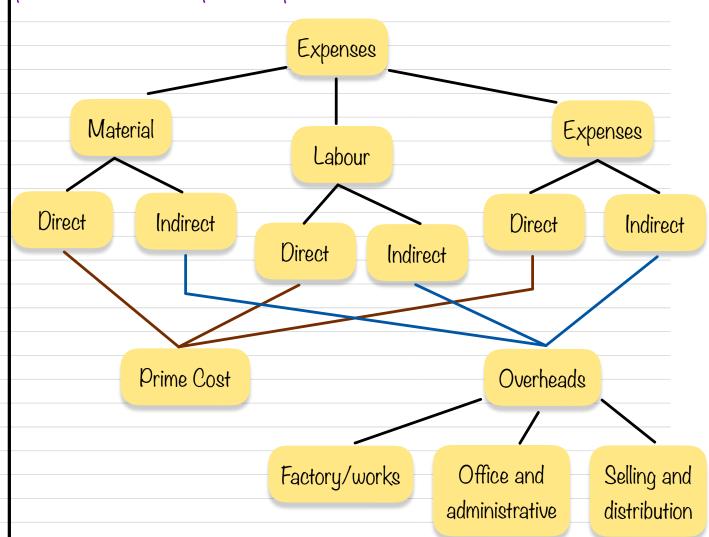
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Cost sheet

A Cost sheet is a statement which represents the various cost incurred at different stages of business operations in a tabular form. It determines the total cost of expenditure made by the organisation along with the Cost incurred on each unit of a product or service in a particular period.

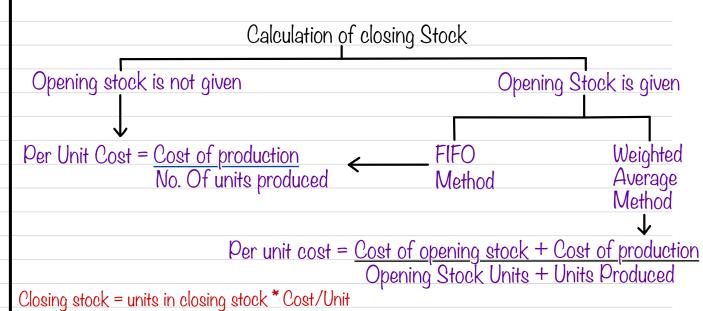


Particulars	Prime Cost	Factory Cost	Conversion Cost
Direct Material	✓	✓	×
Direct Labour	✓	✓	✓
Direct Expenses	✓	✓	✓
Factory Overheads	×	✓	✓

Items Excluded from Cost sheet: financial Nature Items
For Ex - Cash Discount, Interest Expenses, Income Tax Paid. Provision for tax,
Provision for Bad Debts, Dividend Paid, Etc.

Format

Particulars	Amount
Direct material consumed:	
Opening stock of raw material XXX	
+ purchases XXX	
+ carriage inwards XXX	
+ Any other direct expenses on purchases XXX	
- closing stock of raw material (XXX)	XXX
Direct/productive wages	XXX
Direct or chargeable expenses	XXX
Prime cost	XXX
Add: Works and factory overheads	XXX
Less: sale of scrap Factory/Works cost on FG and WIP	XXX
Factory/Works cost on FG and WIP	XXX
Add: Opening stock of WIP	XXX
Less: Closing stock of WIP	XXX
Factory/Works cost on FG	XXX
Add: Öffice and Administrative Overheads	XXX
Cost of Production	XXX
Add: Opening stock of FG	XXX
Less: Closing stock of FG	XXX
Cost of Goods Sold	XXX
Add: Selling and Distribution Overheads	XXX
Cost of sales	XXX
Add: Profit	XXX
Sales	XXX



Absorption Rates
Used for the calculation of indirect Nature Expenses based on previous period Data
Absorption Rate = <u>Factory/Administrative/Selling & distribution Overheads</u> Suitable Basis
Generally Question will provide you with suitable basis but in silent cases take basis as follows
For Factory Overheads - Direct labour For Administrative Overheads - Factory Cost
For Selling Overheads - Cost of Goods Sold
Bifurcation of variable and fixed cost from semi variable cost
Variable Cost per Unit = <u>Change in Cost</u> Change in Units
Fixed Cost = Total cost - No. of Units * Variable cost/Unit

Material Costing

Topic 1: Valuation of material receipt



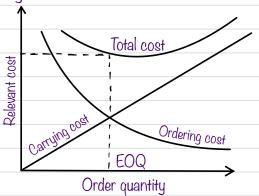
	Homo	The almost
_	Items	Treatment
	Trade discount	Subtract from cost
	Cash discount	Do not Subtract
	Quantity discount	Subtract from cost
	GST tax	Subtract from cost if ITC available
	Custom duty	Included in cost
	Subsidy and grants	Subtract from cost
	Toll tax	Included in cost
	Demurrage/fines/detention charges	Exclude from cost
	Freight inwards	Included in cost
	Insurance	Included in cost
	Commission on Purchase	Included in cost
	Cost of non returnable containers	Included in cost
	Cost of returnable containers	If full amount is refunded then do not include in cost
		If on return amount received less than cost paid then
		include amount paid - refund received
	Normal loss (shortage)	Absorbed by good units
	Abnormal loss (shortage)	Transfer to costing profit and loss account
_		*0 ./ " T.1 ./8/ C "

* Cost/unit = Total cost/No of units

Topic 2: Economic order quantity



How much quantity to be ordered in a single order so that the cost is minimum.



Ordering cost - cost of placing an order to supplier till the goods received.

Carrying cost - cost of storage and maintenance of raw material. it generally includes storage cost, interest cost, insurance cost, obsolescence cost.

No. of orders = annual requirement

Order quantity

 $EOQ = \sqrt{\frac{2 \times \text{annual requirement } \times \text{ordering cost}}{\text{Carrying cost}}}$

Average inventory = <u>order quantity</u> Z Note: If question provide monthly demand of product or normal usage per week then find out annual usage by using normal usage per week \times 52

Time between 2 orders/ order frequency = 360 days / 52 weeks / 12 months

No. Of orders

If OC and CC is provided in the question and we need to find annual demand then apply

$$OC + CC = \sqrt{2 \times A \times O \times C}$$

Topic 3: EOQ vs NON EOQ (without discount)

→ Irrelevant cost

L.	THOO VALLE COST		
	Particulars	EOQ	NON EOQ
L	—Purchase cost	Annual requirement units x cost/unit	Annual requirement units x cost/unit
	Ordering cost	Annual demand x OC/order	Annual demand x OC/order
	_	EOQ	OQ
	Carrying cost	EOQ x CC/unit/p.a.	OQ x CC/unit/p.a.
		2	2
		Total cost	Total cost

Topic 4: EOQ vs NON EOQ (with discount)

→ Relevant cost

١.	/ Nelevarii cust		
	Particulars	EOQ	NON EOQ
	—Purchase cost	Annual requirement units x cost/unit	Annual requirement units x cost/unit
	Ordering cost	Annual demand x OC/order	Annual demand x OC/order
		EOQ	OQ
	Carrying cost	EOQ x CC/unit/p.a.	<u>OQ</u> x CC/unit∕p.a.
		2	2 /
		Total cost	/ Total cost

After discount <

Note: If carrying cost given in percentage then apply that percent in cost per unit after discount for calculation of carrying cost in case of NON EOQ but if CC given as flat rate then apply the same in both the cases.

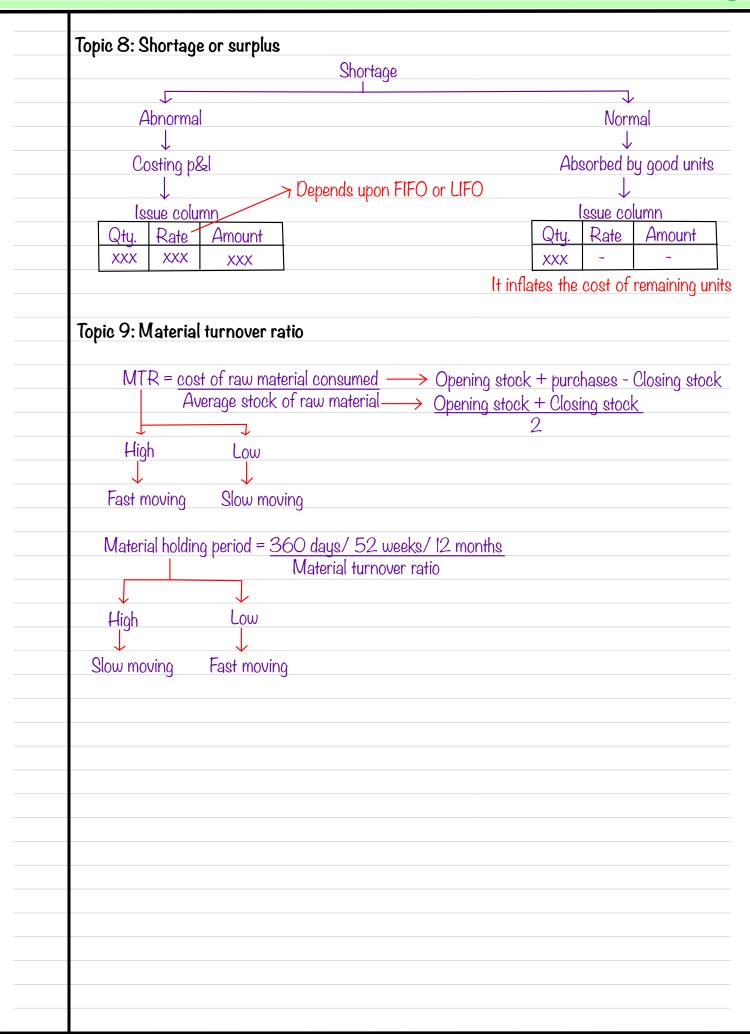
Topic 5: Slab discount (Price break)

Select the minimum cost

Quantity	Cost/unit	Purchase cost	Ordering cost	Carrying cost	Total cost

Take the quantity on the lower side of slab for each level and for 1st level take any round off Qty.

	s stock lev	vels							
Reorder level = N	laximum co	onsump	tion x Maxi	imum le	ad time				
		, C	Or						
= [Minimum lev	vel + (No	ormal consi	umption	x Norn	nal lead tin	ne)		
Minimum level = F	Reorder lev	el - (No	rmal consui	mption ;	k Norma	al lead time	2)		
Maximum level = 3	Reorder lev	vel + Re	eorder Qua	ntity - (Minimu	m consum	ption x N	J inimum	n lead time
In very exceptions	al case = E	OQ+1	Minimum le	vel					
Average level = M	linimum lev	el + 1/2	2 Re order	Quantit	y				
		Or							
= <u>M</u>	<u>aximum lev</u>	<u>/el + Mi</u>	<u>inimum leve</u>	_					
Danger level = No	ormal/Mini	mum co	ngumption	x Lead	time for	emernena	eu burch	986 986	
2 4 ingol lovol 100	2. 1.191/ t*(ii iii			,. 5044	<u> </u>	o. noi goric	g parone		
			If not give	n assur	ne any	days less t	than min	imum da	ays
Topic 7: Stores	ledner								
topic 7. Stores	lougei								
Topic 7. Stores	louge	Receit	ot		Issue			Balano	
Date	Qty.	Receip Rate	ot Amount	Qty.	Issue Rate	Amount	Qty.	Balano Rate	1
,			1	Qty.	1	1	Qty.		1
			1	Qty.	1	1	Qty.		1
•			1	Qty.	1	1	Qty.		1
•			1		Rate	Amount	Qty.		1
•			Amount		Rate	Amount	Qty.		1
•			Amount	of valua	Rate ation of	Amount	Qty.	Rate	Amount
Date		Rate	Amount	of valua	Rate ation of	Amount	Qty.	Rate	Amount
Date	Qty.	Rate LIF	Amount Methods mn at the ra	of valua We ate of p	Rate ation of eighted urchase	Amount stock Average	Qty.	Rate	Amount
Date FIFO Return to supplier Return from produ	Qty. Qty. Put in issuction to st	LIF	Methods mn at the raut in receip	of valua We ate of p	Rate ation of eighted urchase	Amount stock Average		Rate	Amount
Pate FIFO Return to supplier Return from produ # If fifo method for balance column	Qty. Qty. Put in issuction to stollowed put	LIF eue coluitores: P	Methods Methods mn at the raut in receipnount in Top	of valua We atte of pot column of	Rate ation of urchase Que. the o	Amount stock Average specify late of	Que. Do specify	Rate Sim oesn't the	Amount
Peturn to supplier Return from produte # If fifo method for balance column # If lifo method for the supplier Return from products # If lifo method from products # If lifo metho	Qty. Qty. Put in issuction to stollowed put	LIF eue coluitores: P	Methods Methods mn at the raut in receipnount in Top	of valua We atte of pot column of	Rate ation of urchase n Que	Amount stock Average specify late of	Que. Do	Rate Sim oesn't the	ple Averag
Return to supplier Return from produte # If fifo method for balance column # If lifo method for balance column	Qty. Qty. ": Put in issuction to stollowed put	LIF eue coluitores: P the am	Methods Methods mn at the raut in receipnount in Top ount in bott	of valua We atte of pot column of	Rate Ation of Leighted Lurchase Cue. The construction of Lissue	Amount stock Average specify late of	Que. Do specify date of	Rate Sim oesn't the issue.	Amount
Peturn to supplier Return from produte # If fifo method for balance column # If lifo method for the supplier Return from products # If lifo method from products # If lifo metho	Qty. Qty. ": Put in issuction to stollowed put	LIF eue coluitores: P the am	Methods Methods mn at the raut in receipnount in Top ount in bott	of valua We atte of pot column of	Rate ation of urchase Que. the o	Amount stock Average specify late of	Que. Do specify date of Value a	Rate Sim oesn't the issue.	Amount



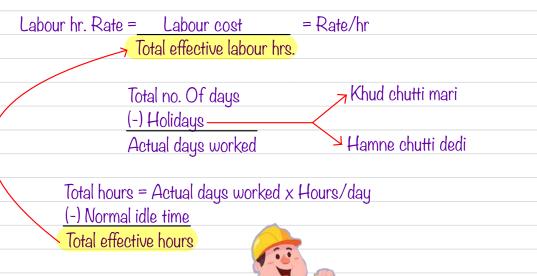
Labour Costing



Topic 1: Calculation of Employees cost

Benefits paid or payable to the employees of an entity, whether permanent, or temporary for the services rendered by them. Employee cost includes payments made in cash or kind.

S.no.	Particulars Particulars	Amount
a.	Basic pay	
b.	Dearness Allowance	
c.	All Allowances	
d.	Bonus	
е.	Other benefits to employees	
f.	Gross wages (a+b+c+d+e)	
i.	Employer's contribution towards PF & ESI	
j.	Labour cost (f+i)	
k.	Employee's contribution towards PF & ESI	
<u>l.</u>	Net wages (f-k)	



Topic 2: Idle Time

Normal idle time: treated as factory overheads Abnormal idle time: transfer to costing P&L

Topic 3: Over time

Overtime Payment = Wages paid for overtime at normal rate + Premium (extra) payment for overtime work

As per the Factories Act 1948 "Where a worker works in a factory for more than nine hours in any day or for more than fourty eight hours in any week, he shall, in respect of overtime work, be entitled to wages at the rate of twice his ordinary rate of wages".

Reason of overtime	Treatment
The customer demands	Overtime premium charged to job directly
Overtime is depos to mark any shortfell in toroduction	Manual
Overtime is done to meet any shortfall in production	Normal wages = Direct labour cost
which is unexpected	Overtime premium = Factory overheads
Overtime is done as a regular policy due to labour shortage	Charged to Direct labour cost on weighted average rate basis which is calculated from past data
	ddid
Overtime is done due to fault of any department	Charge overtime to that particular department
Overtime is done due to any abnormal reason such as flood, earthquake, etc	Charged to costing P&L

Normal wage rate = 25/hr

Overtime rate = $25 + 25 \times 40\% = 35/hr$

Overtime premium = 35 - 25 = 10/hr



Topic 4: Time rate and piece rate

Payment can be done

Time rate Piece rate

Time worked x rate/hr

Units produced x rate/unit

Topic 5: How to calculate efficiency of labour

Efficiency

Time based

= standard time x 100

Actual time

Output based

= Actual quantity x 100

Standard quantity

Topic 6: Various Incentive Plan

Taylor Differential Piece Rate System

- Performance Below 100% = 80% of Normal Wages
- Performance Equal and Above 100% = 120% of Normal wages

Merrick Differential Piece Rate System

- Up to 83% of production = Normal piece rate
- · 83% to 100% of production = 110% of ordinary piece rate
- · Above 100% of production = 120% of ordinary piece rate



Gantt Task Bonus Plan

- Production below standard = Guaranteed time rate
- Production at standard = Bonus of 20% [normally] of time rate
- Production above standard = High piece rate for the entire output

Emerson's Efficiency Plan

- · for a performance below 66.67% efficiency, only time rate wages is paid without any bonus
- · for a performance between 66.67% and IOO% efficiency, bonus 20%
- · above 100% efficiency level, bonus of 20% of basic wages + 1% for each 1% increase in efficiency is admissible

Bedaux System

Bedaux Points = Time*60

Premium = $\frac{75\% \text{ of Bedaux points saved}}{60}$ * Rate per hour

Barth Variable Sharing Plan

Wages = Rate per hour $*\sqrt{Standard\ Time} \times Hours\ Worked$

Halsey premium plan

Wages = Time taken x Rate/hr + 50% of (standard time - time taken) x Rate/hr,

Basic pay

Bonus

Rowan premium plan

Wages = Time taken x Rate/hr + Time taken x Time saved x Rate/hr Standard time

Basic pay

Bonus

Halsey weir plan

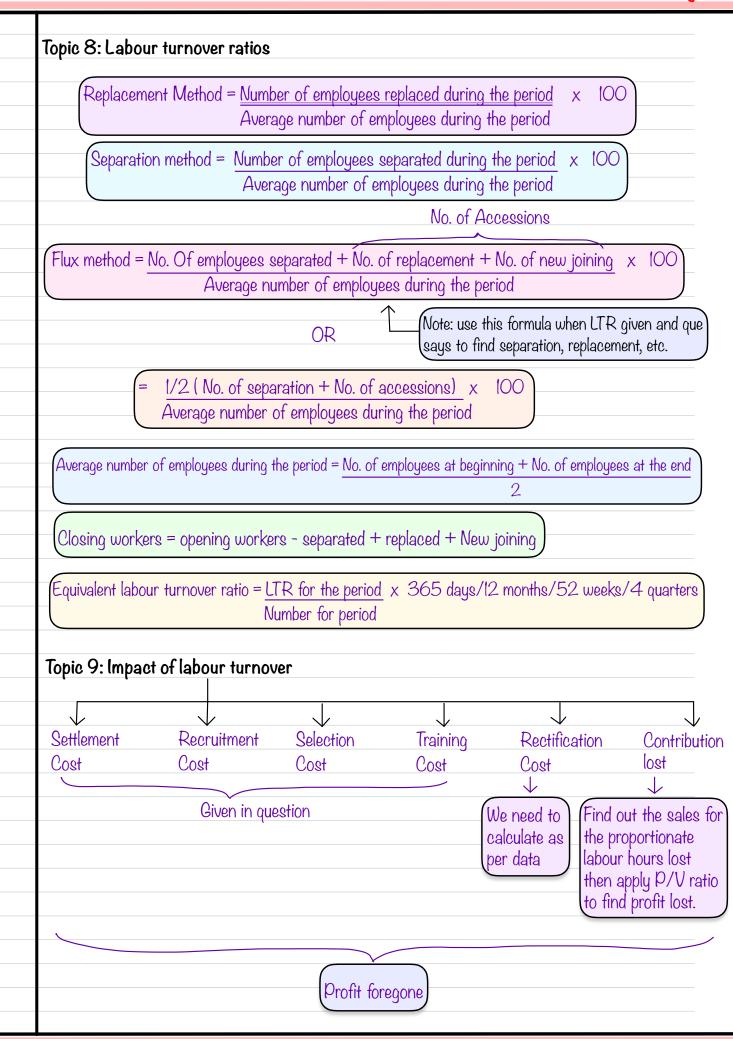
Wages = Time taken x Rate/hr + 33-1/3% of (standard time - time taken) x Rate/hr

Basic pay

Bonus

Topic 7: Group Bonus scheme

Bonus is to be calculated on the basis of group performance and not by a individual worker performance. Total actual output and total standard output of the group is considered for efficiency calculation and accordingly % of bonus is calculated then applied to rate/hr to find out bonus rate per hour.



Overheads

Topic 1: Distribution of overheads

(Distribution summary)

Primary summary

Secondary summary

Distribution of overheads amongst production department and service department for 1st time.

Redistribution of overheads of services departments over production department.

Format of primary summary

_	t of that of primary summary									
	Particulars	Basis	PI	p2	p3	21	S2			
	Direct material	Given	J	_	1	XXX	XXX			
	Direct wages	Given	J	_	•	XXX	XXX			
	Indirect material	Direct material	XXX	XXX	XXX	XXX	XXX			
	Indirect labour	Direct wages	XXX	XXX	XXX	XXX	XXX			
	Depreciation	Capital value of assets	XXX	XXX	XXX	XXX	XXX			
	Rent	Area	XXX	XXX	XXX	XXX	XXX			
	Insurance	Capital value of assets	XXX	XXX	XXX	XXX	XXX			
	Lighting	Lights points/Area	XXX	XXX	XXX	XXX	XXX			
	Power	H.P. Of machine x Hrs	XXX	XXX	XXX	XXX	XXX			
	Maintenance	Machine hours	XXX	XXX	XXX	XXX	XXX			
	Super vision/staff welfare	No. Of employees	XXX	XXX	XXX	XXX	XXX			
	Sundries	Labour hr/machine hr/	XXX	XXX	XXX	XXX	XXX			
		Direct wages								
	Total of primary summary		XXX	XXX	XXX	XXX	XXX			

Secondary summary

Direct method: Ek service department dusre ko service nahi dega

Format of secondary summary

Particulars	Basis	PI	p2	p3	21	S2
Total of primary summary		XXX	XXX	XXX	XXX	XXX
Distribution of overheads of SI	Ratio	XXX	XXX	XXX	(xxx)	-
Distribution of overheads of S2	Ratio	XXX	XXX	XXX	ſ	(xxx)
Total		XXX	XXX	XXX	1	_

Step ladder method: Ek bar koi service nil hua toh dubara cost nahi allocate hogi

Format of secondary summary

Particulars	Basis	Pl	p2	SI	S 2	\$3
Total of primary summary		XXX	XXX	XXX	XXX	XXX
Distribution of SI		XXX	XXX	(xxx)	XXX	XXX
Distribution of S2		XXX	XXX	j	(xxx)	XXX
Distribution of S3		XXX	XXX	-	j	(xxx)
Total						

The service department which provides services to maximum number of departments are going to be distributed first and so on.

Example

Particulars	pl	p2	S1	S 2	S 3	
21	60	40	_	_	-	Rank 3
S 2	20	30	10	<u> </u>	40	Rank I
S 3	40	30	30	-	J	Rank 2

Format of secondary summary (without following ranking)

Particulars	Basis	pl	p 2	SI	S 2	\$3
Total of primary summary		XXX	XXX	XXX	XXX	XXX
Distribution of SI		XXX	XXX	(xxx)	-	_
Distribution of S2		XXX	XXX	ì	(xxx)	_
Distribution of S3		XXX	XXX	-	J	(xxx)
Total						

Format of secondary summary (with ranking sequence)

1 0111	iai di secoliu	ary summar	y (WIIII raliki	rig sequence	5)	
Particulars	Basis	Pl	p2	Sİ	S 2	S 3
Total of primary summary		XXX	XXX	XXX	XXX	XXX
Distribution of S2		XXX	XXX	XXX	(xxx)	XXX
Distribution of S3		XXX	XXX	XXX	<u> </u>	(xxx)
Distribution of SI		XXX	XXX	(xxx)	J	J
Total						

Simultaneous Equations Method: 2 equations banao or solve them simultaneously

Total overheads of SI = x

Total overheads of S2 = y

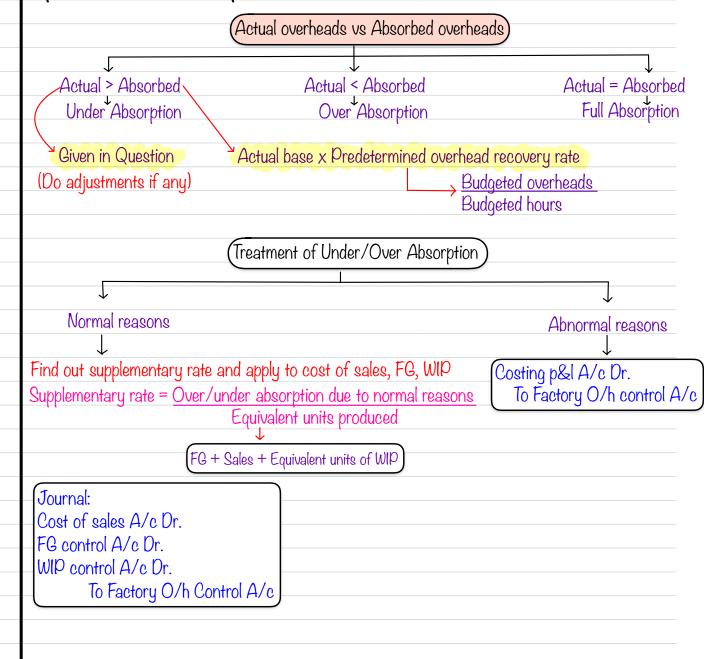
x = overheads of SI + share of overheads received from S2

y = overheads of S2 + share of overheads received from S1

Repeated distribution method: 3 rounds tak distribution karte jao (2 service dept.)

Particulars	Basis	Pl	P2	21	S2
Total of primary summary		XXX	XXX	XXX	XXX
Distribution of SI		XXX	XXX	(xxx)	XXX
Distribution of S2		XXX	XXX	XXX	(xxx)
Distribution of SI		XXX	XXX	(xxx)	XXX
Distribution of S2		XXX	XXX	XXX	(xxx)
Distribution of SI		XXX	XXX	(xxx)	XXX
Distribution of S2		XXX	XXX	J	(xxx)
Total					

Topic 2: Over/under Absorption



	Statement showing	calculation	of machine	hour rate
--	-------------------	-------------	------------	-----------

	Statement snowing calculation (ot machine nour rate		_
S.no.	Particulars	Calculations	Amount	
A.	Standing charges			
	Salary to manager, foreman, Supervisor, etc			
	Lighting			
	Rent			
	Indirect wages			
	Depreciation (based on time)			
	Department overheads			
	Total standing charges (a)			
	Total machine hours (b)			
	Standing expenses per hour (a/b)			
	3 1			
B.	Machine charges			
	Fuel)		
	Power/electricity	Calculate		
	Repairs and maintenance	on per hr		
	Consumables	basis		
	Depreciation (based on Run))		
	Machine charges per hour			
	3 1			
	Machine hour rate (A+B)			

Effective machine hours - Total machine hours - maintenance time - set up (unproductive) Assume unproductive in silent cases

Note: In new study material institute taken depreciation in machine charges only.

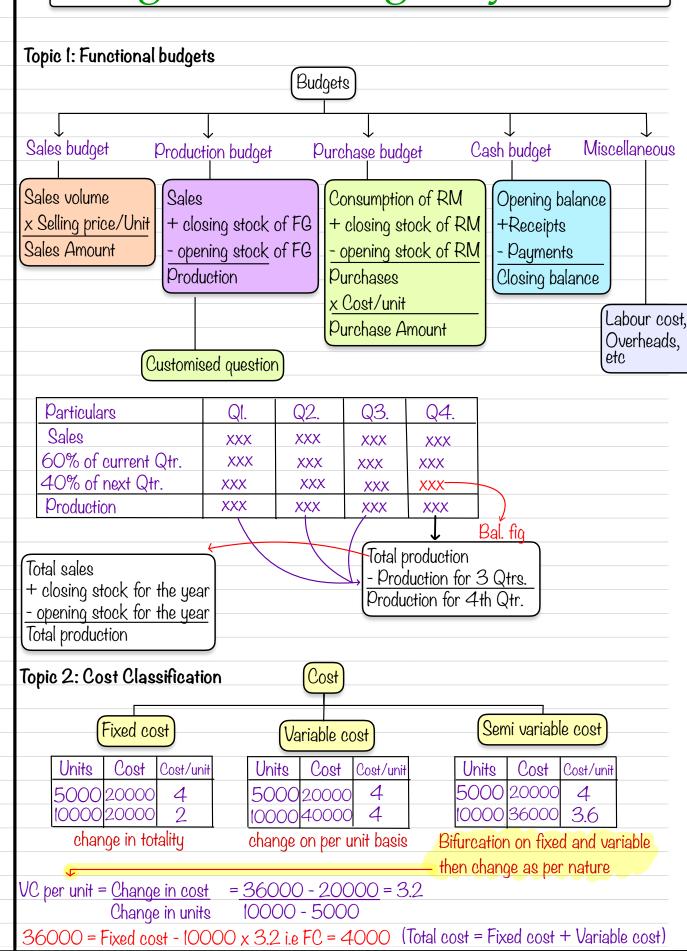
Topic 4: Overhead recovery rate/Absorption rate

Absorption rate =
$$\frac{\text{overheads}}{\text{Basis}} \times 100$$

→ Direct material, Direct labour, Direct labour hours, Machine hours

Department rate = Separate rate for each department Blanket rate = Single rate for whole department

Budget and Budgetary control



Topic 3: Flexible Budget

Format of flexible budget

S.no	Particulars	Level I units	Level 2 units	Level 3 units
A.	Sales			
B.	Cost			
	Fixed			
	Variable			
	Semi variable			
	Total			
C.	Profit & Loss (A-B)			

Topic 4: Budget Ratios

Standard time = Standard time for actual production = 36x2	Particulars	Hours/unit	Units
Actual Time = Actual time for actual production = $\frac{36}{3}$	Actual	36	3
Budgeted time = Budgeted time for Budgeted production = $40x^2$	Budgeted	40	2

	Efficiency ratio = standard time >	100 Activity ratio = standard time_x 100
Actual time		Budgeted time

Capacity ratio = <u>Actual time</u> x 100 (Calendar ratio = <u>Actual working days</u> x 100
Budgeted time	Budgeted working days

Contract Costing

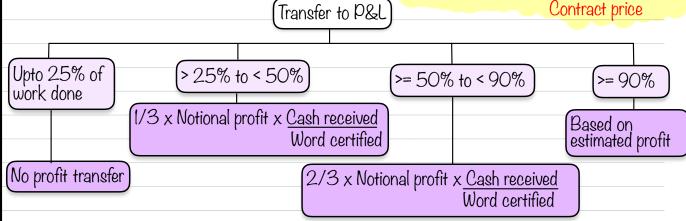
Topic 1: Format of Contract A/c

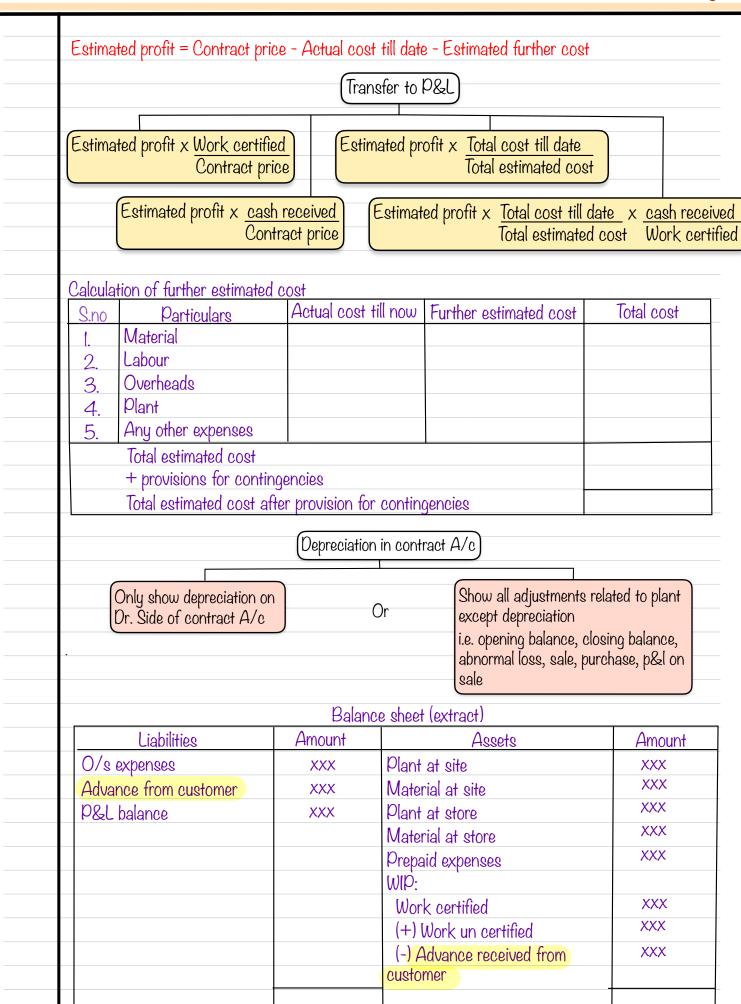
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I ' Or	ン+r^^+	/\/n
\cup 01	maci	A/c

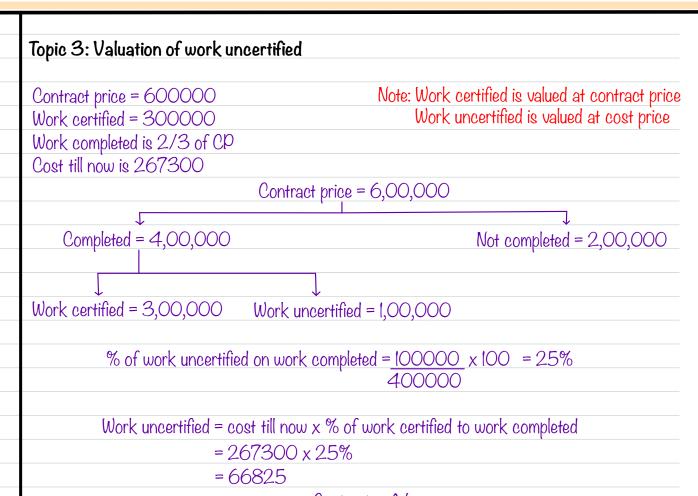
Particulars	Amount	Particulars	Amount
To materials:		By material:	
Opening stock	XXX	Returned to supplier	XXX
Direct purchases	XXX	Returned to stores	XXX
Issued from stores	XXX	Transferred to other contracts	XXX
Transfer from other contract	XXX	Sold	XXX
To wages		In hand	XXX
To plant		By plant	
Cost of special plant	XXX	Returned to stores	XXX
Depreciation **	XXX	Transferred to other contracts	XXX
Opening plant	XXX	Sold	XXX
To Direct expenses	XXX	In hand	XXX
To cost of sub contractor	XXX	By p&l	
To cost of extra work	XXX	Material lost, stolen, destroyed	XXX
To indirect expenses	XXX	Plant lost, stolen, destroyed	XXX
To accrued expenses	XXX	By WIP (Incomplete Contract)	
To p&I		Value of work certified	XXX
Profit on sale of material	XXX	Value of work uncertified	XXX
Profit on sale of plant	XXX	By contractee A/c	XXX
		By contractee A/c (completed contract)	
To notional profit (b/f)	XXX	Contract price	
		By costing p&l (b/f)	XXX
	XXX	T • • • • • • • • • • • • • • • • • • •	XXX



% of work completed = $\frac{\text{work certified}}{\text{Contract price}} \times 100$







Contractee A/c

Particulars	Amount	Particulars	Amount
To balance c/d	XXX	By bank	XXX
To balance c/d	XXX	By balance b/d	XXX
		By bank	XXX
To balance c/d	XXX	By balance b/d By bank	XXX
T 1 1 1			VVV
To contract A/c	XXX	By balance b/d By bank	XXX
		3	

Topic 4: Escalation clause

The clause inserted in a construction contract so that if the price of raw material & other expenses increased beyond a certain limit then the contract price increased by contractor

Journal

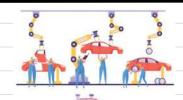
Contractee A/c Dr.

To contract A/c

(Being contract price increased due to escalation clause)

Price of mat	ed to the contract 100000 & material in hand at the erial is increased by 25%	-
Solution: Ma	-	
Solution: Ma		
	erial consumed = 100000 - 20000 = 80000	
Ma	terial price before price rise = $80000 \times 100 = 640$)00
10 .	125	
	e rise = 80000 - 64000 = 16000	
	increase = $16000 \times 5\% = 3200$	
	te rise above $5\% = 16000 - 3200 = 12800$	5.400
Am	ount to be borne by contractee = $12800 \times 50\% = 6$	5400

Process costing

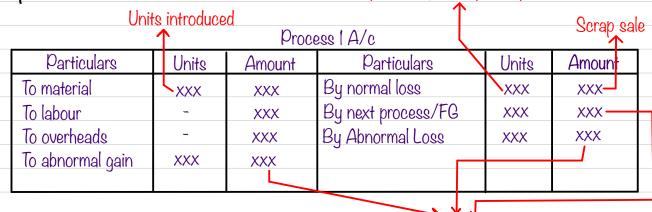


Topic 1: Process Costing

When more than I process is required to manufacture a product then concept of process costing arise. Here we have to prepare process accounts to know cost incurred process wise and the value of stock transferred to next process or finished goods account.

Topic 2: Proces	s A/c
-----------------	-------

As a percentage of input or production



Valued at per unit cost = Total cost - Normal loss scrap sale
Total units - Normal loss units

Normal loss: It is absorbed by good units

Particulars

To process A/c

Abnormal loss: It is transferred to costing p&l

Abnormal Gain: It is transferred to costing p&l

Units

XXX

Normal	Loss A/c	,	<u> </u>
Amount	Particulars	Units	Amount
XXX	By Bank A/c	XXX	XXX
	Bu Abnormal Gain A/c	xxx	xxx

Opportunity cost

Scrap sale <

Abnormal Loss A/c

	Particulars	Units	Amount	Particulars	Units	Amount
Ī	To process A/c	XXX	XXX	By Bank A/c	XXX	XXX
	(0 0.00000 1.70			By Costing P&L (b/f)	_	XXX
I				3		

Abnormal Gain A/c

Particulars	Units	Amount	Particulars	Units	Amount
To Normal Loss A/c	XXX	XXX	By Process A/c	XXX	XXX
To Costing P&L (b/f)	ſ	XXX	3		
J					

Topic 3: Process Stock A/c

Process I A/c

Particulars	Units	Amount	Particulars	Units	Amount
To material	XXX	XXX	By normal loss	XXX	XXX
To labour	-	XXX	By Process Stock A/c	XXX	XXX
To overheads	ı	XXX	By Abnormal Loss	XXX	XXX
To abnormal gain	XXX	XXX			
•					

Process Stock A/c

Particulars	Units	Amount	Particulars	Units	Amount
To bal. b/d	XXX	XXX	By next process/FG	XXX	XXX
To Process I A/c	XXX	XXX	By bal. c/d	XXX	XXX
			3		

Weighted average method

Cost/unit = $\frac{\text{Total Amount of dr. Side of process stock A/c}}{\text{Total units of dr. Side of process stock A/c}}$

Balancing figure in case when closing stock is valued at current cost

Topic 4: Direct sale from process A/c

Sometimes Question provide data related to selling price of respective process that means process are selling their output directly to the market. In that case 2 types of presentation can be possible

- I. Process is an responsibility centre: sales shown in process A/c
- 2. Process is not an responsibility centre: sales shown in costing p&l A/c

Topic 5: Equivalent production units (when opening WIP is not given)

			<u> </u>	Sera	ap sale				
Process A/c									
Particulars	Units	Amount	Particulars	Units	Amount				
To material	XXX	XXX	By normal loss	XXX	L _{XXX}				
To labour	_	XXX	By Process Stock A/c	XXX	XXX				
To overheads	_	XXX	By Abnormal Loss	XXX	- XXX				
To abnormal gain	XXX	XXX	By closing WIP	XXX	XXX				
			1 11	1					
		F	As per statement of va	aluation	\leftarrow				

Statement	of	equivalent	production units
-----------	----	------------	------------------

				Ma	nterial	L	abour	Ove	rheads
	Input	Particulars	Output	000	EPU units				
	XXX	Introduced	,						
		Normal loss	XXX	-	ı	j	J	ı	_
		Units Completed	XXX	100%	XXX	100%	XXX	100%	XXX
		Closing WIP	XXX	DOC	XXX	DOC	XXX	DOC	XXX
		Abnormal Loss	XXX	DOC	XXX	DOC	XXX	DOC	XXX
		Abnormal Gain	(xxx)	100%	(xxx)	100%	(xxx)	100%	(xxx)
Į					EPU		EPU		EPU

If DOC not given take 100%

Statement showing per unit cost

Particulars	Cost	EPU	Cost/Unit
Material	xxx - Normal loss scrap sale	EPU	Cost/EPU
Labour	XXX	EPU	Cost/EPU
Overheads	XXX	EPU	Cost/EPU

Statement of valuation

Items	Elements	EPU	Cost/unit	Total Value
Completed,	Material	EPU	XXX	EPU * Cost/unit
Abnormal loss/	Labour	EPU	XXX	EPU * Cost/unit
gain, WIP	Overheads	EPU	XXX	EPU * Cost/unit
3				XXX

Amount to be taken to process A/c

Topic 6: Equivalent production units (when opening WIP is given) - FIFO method

Scrap sale

		Proce	288 A/C		<u> </u>	
Particulars	Units	Amount	Particulars	Units	Amount	
To opening WIP	XXX	XXX	By normal loss	XXX	L _{XXX}	
To material	XXX	XXX	By Process Stock A/c	XXX	XXX=	1
To labour	_	XXX	By Abnormal Loss	XXX	— XXX	
To overheads	-	XXX	<u> </u>	XXX	XXX	Н
To abnormal gain	XXX	XXX	3			
	- XXX	XXX	By closing WIP			ŀ

Opening WIP cost + Opening WIP & current period production as per statement of valuation

As per statement of valuation

Statement of equivalent produc	tion units
--------------------------------	------------

				Ma	aterial	L	abour	Ove	rheads
	Input	Particulars	Output	DOC	EPU units	000	EPU units	DOC	EPU units
Ì	XXX	Opening WIP + Introduced	•						
		Normal loss	XXX	_	-	-	•	_	_
		Units Completed - Op.	XXX	100 - 200	XXX	100- 000	XXX	100 - 200	XXX
		Current period	XXX	100%	XXX	100%	XXX	100%	XXX
		Closing WIP	XXX	DOC	XXX	DOC	XXX	DOC	XXX
		Abnormal Loss	XXX	DOC	XXX	DOC	XXX	DOC	XXX
		Abnormal Gain	(xxx)	100%	(xxx)	100%	(xxx)	100%	(xxx)
					EPU		EPU		EPU

→ If DOC not given take 100%

Transfer to next process

Statement showing per unit cost

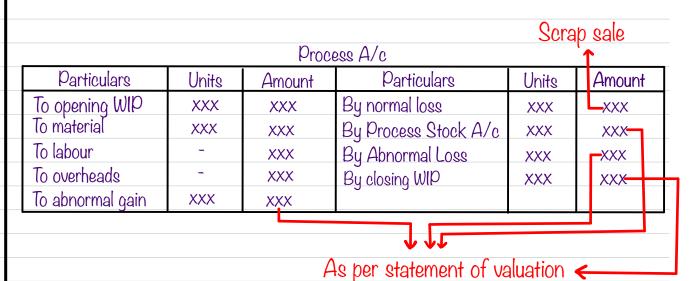
Particulars	Cost	EPU	Cost/Unit
Material	xxx - Normal loss scrap sale	EPU	Cost/EPU
Labour	XXX	EPU	Cost/EPU
Overheads	XXX	EPU	Cost/EPU

Statement of valuation

Items	Elements	EPU	Cost/unit	Total Value
Completed,	Material	EPU	XXX	EPU * Cost/unit
Abnormal loss/	Labour	EPU	XXX	EPU * Cost/unit
gain, WIP	Overheads	EPU	XXX	EPU * Cost/unit
3				XXX

Amount to be taken to process A/c ←

Topic 7: Equivalent production units (when opening WIP is given) - Weighted Average method



Statement of equivalent production units

_	Statement of equivalent production units								
				Ma	nterial	L	abour	Ove	rheads
		Particulars	Output	DOC	EPU units	DOC	EPU units		
	XXX	Opening WIP + Introduced	,						
		Normal loss	XXX	•	ı	ı	•	ı	_
		Units Completed.	XXX	100%	XXX	100%	XXX	100%	XXX
		Closing WIP	XXX	DOC	XXX	DOC	XXX	DOC	XXX
		Abnormal Loss	XXX	DOC	XXX	DOC	XXX	DOC	XXX
		Abnormal Gain	(xxx)	100%	(xxx)	100%	(xxx)	100%	(xxx)
					EPU		EPU		
					·				

Take Units transferred to next

If DOC not given take 100%

process don't bifurcate opening

& current period production

Statement showing per unit cost

Particulars	Opening WIP	Cost	Current period cost	EPU	(Cost/Unit
Material	XXX		xxx - Normal loss scrap sale	EPU	C	ost/EPU
Labour	XXX		XXX	EPU	C	ost/EPU
Overheads	XXX		XXX	EPU	C	ost/EPU

Opening WIP cost + Current period cost

Statement of valuation

ltems	Elements	EPU	Cost/unit	Total Value
Completed,	Material	EPU	XXX	EPU * Cost/unit
Abnormal loss/	Labour	EPU	XXX	EPU * Cost/unit
gain, WIP	Overheads	EPU	XXX	EPU * Cost/unit
•				XXX

Amount to be taken to process A/c ←

When Question does not provide DOC of Opening WIP & Provide bifurcation of cost of opening WIP then by default apply weighted average method

Topic 8: Concept of Material 1 and Material 2

When Question Provides DOC of material of Opening WIP or Closing WIP or Scrap Units less than 100% then concept of MI and M2 Arise

Note: If Question provides Material DOC then it is by default M2

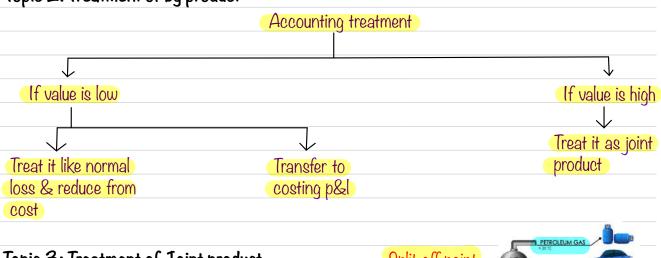
opic 9: Inter Proces	s Profits	\$				Cost of	
			Dnaga	οο Λ /o	process	compar •	ıy
Particulars	Total	Cont	Profit	ss A/c Particulars	Total	Cost	Pro
To opening stock					TUIAL	C081	PIUI
To Direct material	XXX	XXX	XXX -	By next process or FG A/c	XXX	XXX	XXX
To Direct Labour	XXX	XXX	_	01 FG A/C		\\\\	
To prime cost	XXX	XXX	XXX	→ Ratio			
(-) Closing stock	XXX	XXX	XXX	- INGIIIO			
1 7 Closing Stock	XXX	XXX	XXX	Apply to separate			
To factory overheads	XXX	XXX	- (cost & profit			
To Factory Cost	XXX	XXX	XXX	,			
To profit	XXX		XXX				
(Cost * profit %)							
,							
lote: For last proce vill be balancing fig Actual realised pro- nrealised profit of	ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			•
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			
lote: For last proce vill be balancing fig	ess A/o ure.	c sales		•			

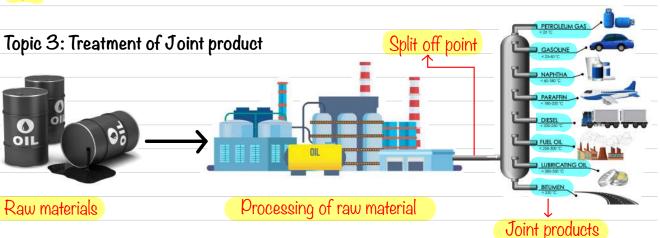
Joint product By product

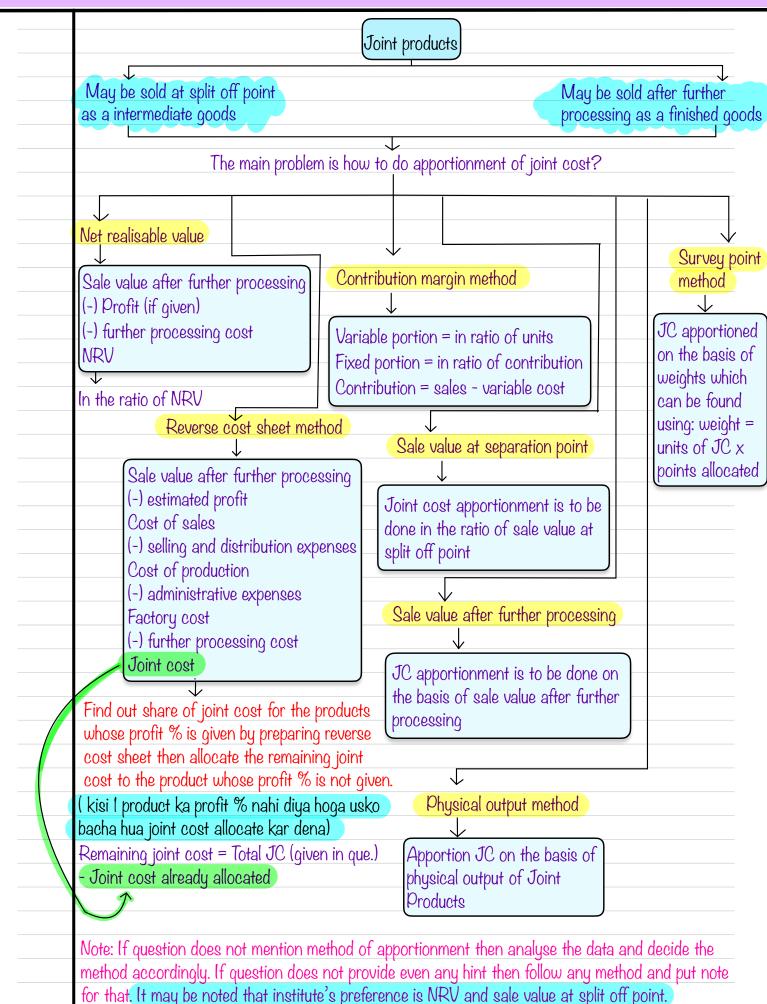
Topic 1: Difference between joint product & by product

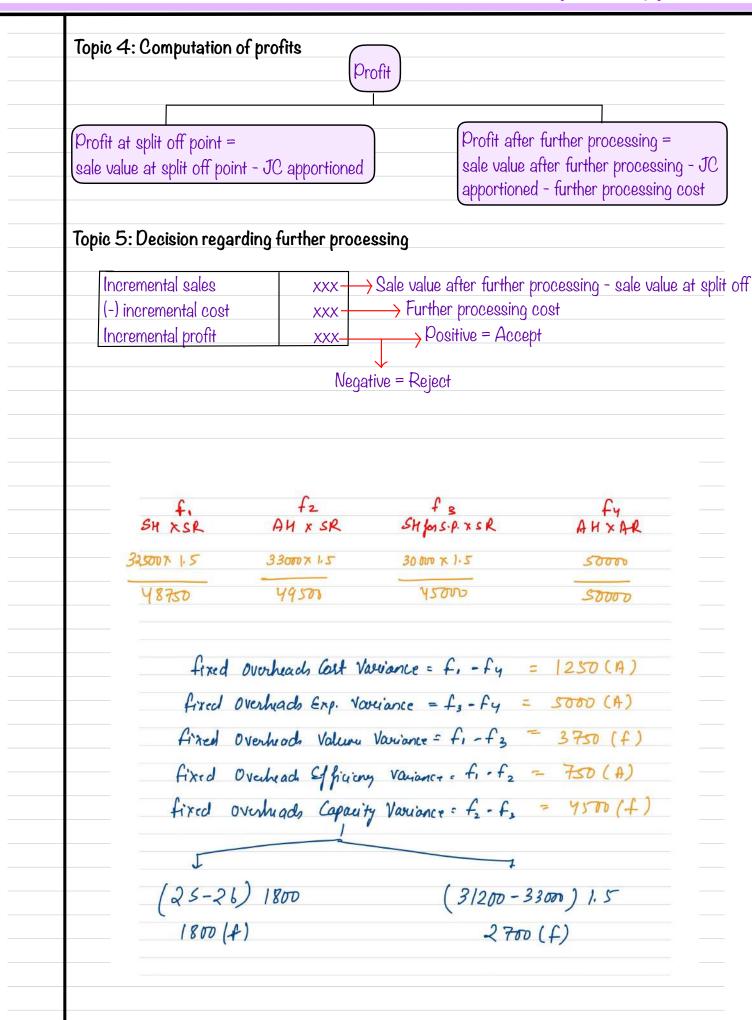
BASIS FOR COMPARISON	JOINT PRODUCT	BY-PRODUCT
Meaning	When the production of two or more products of similar value, are made together with same input and process, is called joint product.	The term by-product means a product which is incidentally produced, during the processing operation of another product.
Economic Value	Joint products have same economic value.	Economic value of by-product is lower than the main product.
Production	Consciously	Consequently
Input	Raw material	Waste or scrap of the main product.
Further Processing	Required to turn the joint products into finished product.	Not required.











Standard Costing



Standard costing is the practice of substituting an expected cost for an actual cost in the accounting records. Subsequently, variances are recorded to show the difference between the expected and actual costs.

→ Kitha Actually hua

Difference in std. & Actual

Kitha Hona chahiye tha

Actual cost > standard cost = Adverse Actual cost < standard cost = Favorable

Topic 1: Material cost variance

Direct material cost variance

(Standard cost - Actual cost = SQ x SR - AQ x AR)

V Direct material usage variance

Direct material price variance

SR x (SQ - AQ)

AQ x (SR - AR)

Direct material mix variance

Direct material yield variance

SR x (RAQ - AQ)

SR x (SQ - RAQ)

SQ = standard quantity for actual production AQ = Actual quantity

SR = standard rate.

AR = Actual rate

RAQ = Actual Quantity in standard rate.

	M t	M2	M3	M 4
Particulars	SQ x SR	RAQ x SR	AQ x SR	AQ x AR
Material 1				
Material 2				
Material 3				
Total				

Direct material cost variance = M1-M4

Direct material usage variance = M1-M3

Direct material price variance = M3-M4

Direct material mix variance = M2-M3

Note: if question provide opening and closing stock then use consumption to find variances except DMPV which is to be calculated on purchases basis.

Direct material yield variance = M1-M2

Direct material consumed = opening stock (value at std. rate if value not given in que.) + purchases closing stock (value at Fifo basis)

Example:								
The standard mix to	1		JS:					
Material A 60 units @ Rs. 15 per unit = Rs. 900 Material B 80 units @ Rs. 20 per unit = Rs. 1600								
Material B 80 units @ Rs. 20 per unit = Rs. 1600 Material C 100 units @ Rs. 25 per unit = Rs. 2500								
During the month of	April, 10 units were a	actually produced a	s follows:					
Material A 640 u								
Material B 950 ur	its @ Rs. 18.00 pe	r unit						
Material C 870 un	its @ Rs. 27.50 pc	er unit						
Calculate all material	variances.							
0.1.1								
Solution:								
	Ratio	2460 In 6:8	8:10					
	MI	M2	M3	M 4				
Particulars	SQ x SR	RAQ x SR	AQ x SR	AQ x AR				
Material A	600 x 15	615 x 15	c640 x 15	640 x 17.5				
Material B	800 x 20	820 x 20	950 x 20	950 x 18				
Material C	1000 x 25	1025 x 25	870 x 25	870 x 27.5				
Total	50000	51250	50350	52225				
•			·					
Direct material cost	variance = MI-M	4 = 50000 - 5	2225 = 2225 (4	<i>†</i>)				
	e variance = M1 - M							
Direct material price	variance = M3-N	N 4 = 50350 - !	52225 = 1875 (A	7)				
Direct material mix v	ariance = $M2 - N$	13 = 51250 - 50	0350 = 900 (F)					
Direct material yield	variance = M1-M	2 = 50000 - 5	51250 = 1250 (A)					
		material cost variar						
	SQ x SR - AQ x A	AR = 50000 - 5	52225 = 2225 (A	4)				
- V				\rightarrow				
Direct material usa	-	0 = 0 / 0)		aterial price variar				
$SR \times (SQ - AQ) = 5$	0000 - 50350 =	= 350 (A)		$Q \times (SR - AR) =$				
			50350	- 52225 = 187				
		→						
Direct material mix v		ct material yield var SR x (SQ - RAQ)						

	(0, 1, 1	Diroci iqpodi oo	st variance		
	(Standard cos	st - Actual cost =	SH x SR - AH	P x AR)	
Diagol Johanna (Cai		Idle time v	priono	D:	. l.k
Direct labour effici		SR x (AHW			t labour rate vai HHP x (SR - A
SR x (SH - AHW	/)	SK X (AHV))-HHP)	F	HAN XIOK - A
Direct labour Mix	variance	Direct labour yi	eld variance		
SR x (RAHW - A		SR x (SH -			
SH = standard hou	•				
RAHW = AHW in		AHW = Actua	I hours worked f	for. $AHP = ac$	ctual hours paid
AHW = AHP - idl	e time				
	1 1	12	L3	L4	L5
Particulars	SHXSR	RAHW x SR	AHW x SR	AHP x SR	AHP x AR
Skilled	0,17,0,1	TV IIIV X OLY	711100 / () ()	744 7000	, , , , , , , , , , , ,
Semi skilled					
Unskilled					
Total					
D					
Direct labour cost					
Direct labour effici Idle time variance					
Direct labour rate					
	variance = L2				
LI JIRROT IANOUR IVIIX	VQ11Q1100 C Z				

Example:

7400 (F)

X Ltd., manufactures product X which requires 2 hours of skilled men, 3 hours of semi-skilled men and 5 hours of unskilled men, per unit at Rs. 5, 3 & 2 per hour respectively. During April 2003, the production department reported output of 5000 units of product X. The labour cost incurred was as detailed below:

Type of labour	Hours paid for	Rate per hour
Skilled	9,000	7.00
Semi-skilled	17,000	2.75
Unskilled	30,000	1.50

The total hours paid for included 1000 idle hours due to machine break down etc. out of which 500 hours pertained to skilled men, 400 hours pertained to semi-skilled men and the balance to unskilled men. Required: Calculate the labour cost variances.

	01	_	D			J		AHP - 10	dle time
9	Solution:	H	Ratio	5!	5000 in 10:1.	5	:25	7 9000 - 5	500, 17000 - 400
						1		30000	-100
			L1	•	L2	I	L3/	L4	L5
	Particulars		SHXSR	R	AHW x SR		AHW x SR	AHP x SR	AHP x AR
	Skilled	5	000 x 2 x 5	1	11000 x 5		(8500 x 5	9000 x 5	9000 x 7
	Semi skilled	5	$000 \times 3 \times 3$	16	6500 x 3	Į	16600 x 3	17000 x 3	17000 x 2.75
	Unskilled	5	$000 \times 5 \times 2$	2	7500 x 2		29900 x 2	30000 x 2	30000 x 1.5
	Total		145000		159500		152100	156000	154750

Direct labour cost variance = L1 - L5 = 145000 - 154750 = 9750 (A)

Direct labour efficiency variance = L1-L3 = 145000 - 152100 = 7100 (A)

Idle time variance = L3 - L4 (always adverse) = 152100 - 156000 = 3900 (A)

Direct labour rate variance = L4 - L5 = 156000 - 154750 = 1250 (F)

Direct labour Mix variance = L2 - L3 = 159500 - 152100 = 7400 (F)

Direct labour yield variance = L1 - L2 = 145000 - 159500 = 14500 (A)

Direct labour cost variance

SH x SR - AHP x AR = 145000 - 154750 = 9750 (A)

\downarrow	\downarrow	\downarrow
Direct labour efficiency variance	Idle time variance	Direct labour rate variance
SR x (SH - AHW) = 145000 -	SR x (AHW - AHP) = 152100 -	AHP x (SR - AR) =
152100 = 7100 (A)	156000 = 3900 (A)	156000 - 154750 =
\		1250 (F)
Direct labour Mix variance	Direct labour yield variance	
SR x (RAHW - AHW) =	SR x (SH - RAHW) =	
159500 - 152100 =	145000 - 159500 =	

14500 (A)

Marginal Costing



Topic I: Meaning of marginal cost and marginal costing

Marginal cost is the change in the total cost for addition of one unit. It is to be noted that for an economist marginal cost and variable cost would be different. But for an accountant both marginal cost and variable cost are same and are interchangeably used. Therefore, for our study, we use marginal cost and variable cost synonymously.

Marginal costing is "the ascertainment of marginal costs and of the effect on profit of changes in volume or type of output by differentiating between fixed costs and variable costs." Several other terms in use like direct costing, contributory costing, variable costing, comparative costing, differential costing and incremental costing are used more or less synonymously with marginal costing.

Relevant cost vs Irrelevant cost

Topic 2: Income statement

Particulars Particulars	Amount
Sales	
(-) Variable cost	
(Direct material, Direct labour, Variable overheads)	
Contribution	
(-) Fixed cost	
Profit	

Sales - Total cost = Profit

Sales - Variable cost - Fixed cost = Profit

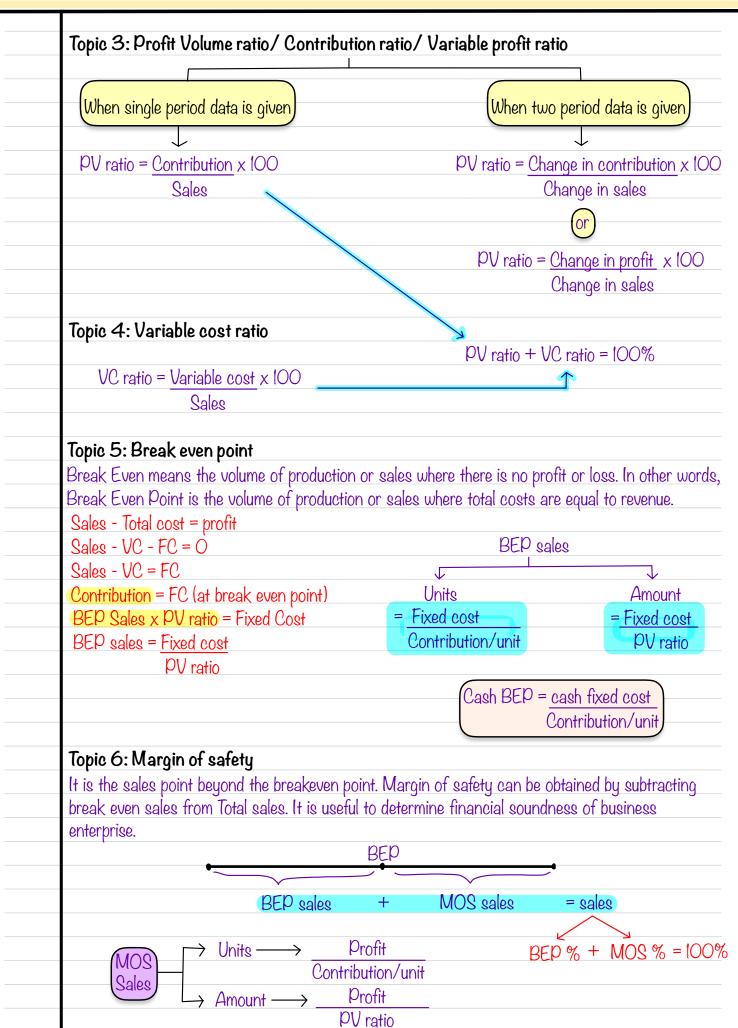
Sales - variable cost = Profit + Fixed cost

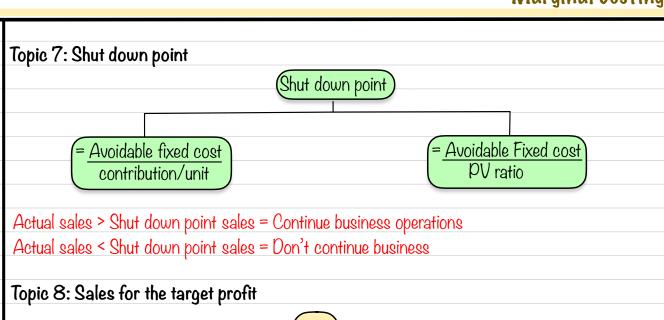
Contribution

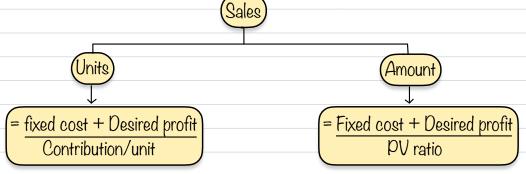
Contribution = sales - variable cost

Contribution = fixed cost + profit

Contribution = fixed cost - loss







Note: If question provide after tax profit then find out profit before tax first.

Topic 9: Combined BEP

Product	Contribution/unit	Weights	Product
X	XXX	XXX	XXX
У	XXX	XXX	XXX
Total		XXX	XXX

Weighted contribution/unit = Total of products
Total of weights

Topic 10: Key factor i.e. short supply of any factor of production



A key factor is defined as the factor in the activities of an undertaking which, at a particular point of time or over a period, will limit the volume of output. Other variant terms are limiting factor, Principal Budget Factor & scarce factor. Limiting factors are governed by both internal & external factors. It may be actual or potential. If a factor of production is in short supply, then the best-paying product becomes that which yields the highest contribution per unit of limiting factor.

Moon Ltd. produces products 'X', 'Y' and 'Z' and has decided to analyse its production mix in respect of these three products - 'X', 'Y' and 'Z'.

You have the following information:

	X	Y	2
Direct Materials ₹ (per unit)	160	120	80
Variable Overheads ₹ (per unit)	8	20	12

Direct labour:

Departments	Rate per hour	Hour per unit	Hour per unit	Hour per unit
		X	У	2
Department-A	4	6	10	5
Department-B	8	6	15	tt .

From the current budget, further details are as below:

	Χ	У	2
Annual Production at present (in units)	10000	12000	20000
Estimated Selling Price per unit (₹)	312	400	240
Sales departments estimate of possible			
sales in the coming year (in units)	12000	16000	24000

There is a constraint on supply of labour in Department-A and its manpower cannot be increased beyond its present level.

Required:

(i) IDENTIFY the best possible product mix of Moon Ltd.

(ii) CALCULATE the total contribution from the best possible product mix.

Particulars	Χ	У	2
Selling price	312	400	240
Variable cost:			
Direct material	160	120	80
Direct labour			
Dept. A (Rate x hours)	24	40	20
Dept. B. (Rate x hours)	48	120	88
Variable overheads	8	20	12
Total variable cost	240	300	200
Contribution per unit.	72	100	40
Hours in department A.	6	10	5
Contribution per hour.	12	10	8
Rank.		2	3

Existing Hours = $10,000 \times 6$ hrs. + $12,000 \times 10$ hrs. + $20,000 \times 5$ hrs. = 2,80,000 hrs.

Best possible product mix (Allocation of Hours on the basis of ranking)

Produce 'X' = 12000 units

Hours Required = 72000 hrs (12000 units $\times 6$ hrs)

Balance Hours Available = 208000 (280000 - 72000)

Produce Y the next best = 16000 units

Hours required = $160000 (16000 \text{ units } \times 10 \text{ hrs})$

Balance hours available = 48000 (208000 - 160000)

Balance Hours Available Produce 'Z' (balance) = 9600 units (48000 hrs/5 hrs)

Product	Units	Contribution/unit	Total contribution
Χ	12000	72	864000
У	16000	100	1600000
2	9600	40	384000

Topic II: Marginal costing vs Absorption costing

Income statement under absorption costing

Particulars.	Amount
Sales	XXX
Production costs:	
Direct material cost	XXX
Direct labour cost	XXX
Variable manufacturing overheads	XXX
Fixed manufacturing overheads	XXX
Cost of production	XXX
(+) opening stock of finished goods (Value at cost of previous period production)	XXX
(-) closing stock of finished goods (Value at cost of current period)	XXX
Cost of goods sold	XXX
(+/-) under or over absorption of fixed manufacturing overheads	XXX
(+) administrative cost	XXX
(+) selling and distribution cost	XXX
Total cost	XXX
Profit (sales - total cost)	XXX

Income statement under marginal costing

Particulars	Amount
Sales	XXX
Variable manufacturing costs:	
Direct material consumed	XXX
Direct labour	XXX
Variable manufacturing overheads	XXX
Cost of goods produced	XXX
(+) opening stock of finished goods (value at previous period)	XXX
(-) closing stock of finished goods (value at current period)	XXX
Cost of goods sold	XXX
(+) variable administration, selling and distribution overheads	XXX
Total variable cost	XXX
Contribution (sales - total variable cost)	XXX
(-) fixed costs (production, administration, selling and distribution)	XXX
Net profit	XXX

Absorption costing is used to calculate per unit cost of item manufactured while marginal
costing is costing used to take future decision in launching a new product in market.
Income calculated under both approaches is always difference. The reason behind this is
valuation of opening and closing stock.
്×In absorption costing, stocks are valued at all variable manufacturing costs and fixed
production overheads. Variable manufacturing costs = Direct material cost +Direct labour cost
+Direct expenses + Variable production OH
്×In marginal costing, stocks are valued at only variable manufacturing cost hence fixed
production overheads are not included in this.
This is the masses wherealism of stack under half approaches differently of stack
 * This is the reason why valuation of stock under both approaches differs And if stock
 valuation differs then profit figure also differs.

Integral & Non Integral Accounting System

Topic I: Meaning of Integral & Non Integral Accounting System

BASIS	INTEGRATED ACCOUNTS	NON-INTEGRATED ACCOUNTS
Meaning	It is a combination of financial and cost accounts	It is a system in which financial and cost accounts are prepared separately
Reconciliation	Reconciliation is not required	Reconciliation is required
Number of books	One set of books is prepared	Separate books for cost and financial accounts are prepared
Duplication	Duplication of work doesn't take place	Duplication of work occurs, as one transaction is recorded in two books and reconciled at the end
Economical	It is economical as it saves time and money while maintaining books of accounts	It is less economical as compared to Integrated Accounts
Profit and Loss Figure	Only one profit and loss figure is shown because of a single set of books	Profit and loss are displayed in both books
Ledger	Subsidiary ledgers are prepared	Cost ledgers are prepared
Interdependence	Cost and Financial accounts are dependent on each other	It is an independent system of accounting
		3

Note: from the next page, the journal entries of non-integral accounting system is given after understanding non-integral accounting system. You just have to replace general ledger adjustment account with personal or real account which We ignored at the time of passing journal entries in non-integral accounting system.

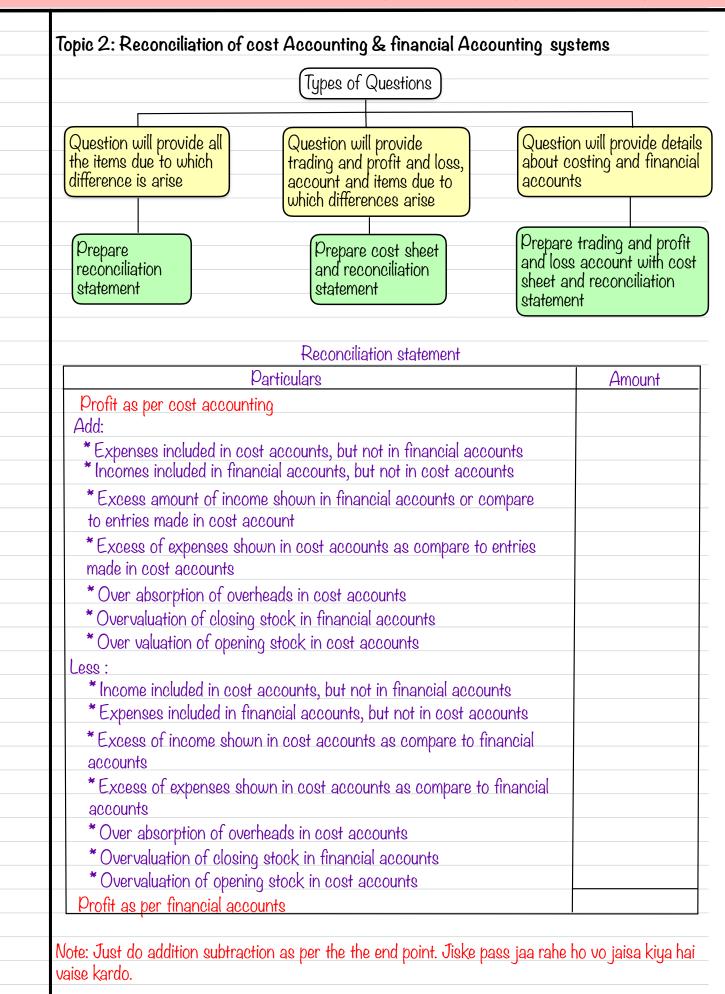
Integral & Non Integral Accounting system

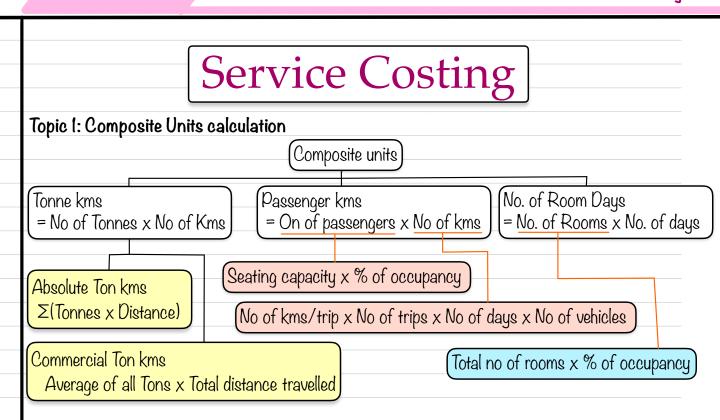
Material Journal Entries (Financial Accounting vs Cost Accounting)				
I. Purchase of material				
Purchase A/c Dr.	Material control A/c Dr.			
To Cash/Creditor A/c	To General Ledger Control A/c			
(Being material purchase)	(Being material purchase)			
Stores A/c Dr.	Stores ledger control A/c Dr.			
To Purchases A/c	To material control A/c			
(Being material t/s to stores)	(Being material t/s to stores)			
(Bolling Malorial 17 & 10 stores)	(Boiling Maiorial 17 & 10 Storos)			
2. Return of Material				
Creditor A/c Dr.	General ledger A/c Dr.			
To stores A/c	To stores ledger control A/c			
(Being material returned to supplier)	(Being material returned to supplier)			
1	(1)			
3. Material issued to production department (direct)				
Production department A/c Dr.	WIP ledger control A/c Dr.			
To Stores A/c	To stores ledger control A/c			
(Being material issued to production dept.)	(Being material issued to production dept.)			
4. Material issued to production department (indirect)				
Production overheads A/c Dr.	Product overheads control A/c Dr.			
To stores A/c	To stores ledger control A/c			
(Being indirect material issued)	(Being indirect material issued)			
	-			
5. Material directly purchased by production department				
Production department A/c Dr.	WIP ledger control A/c Dr.			
To cash/creditor	To general ledger control A/c			
(Being direct purchases made by purchase dept.)	(Being direct purchases made by purchase dept.)			
6. Material returned from production to stores				
Stores A/c Dr.	Stores ledger control A/c Dr.			
To Production Dept.	To WIP ledger control A/c			
(Being material returned to stores)	(Being material returned to stores)			
7. Material issued for the purpose of repairs				
Production Overhead A/c Dr.	Production O/h control A/c Dr.			
To stores A/c	To stores ledger control A/c			
(Material issued for repairs)	(Material issued for repairs)			
	·			
8. Transfer of production o/h to WIP				
Production Department A/c Dr.	WIP ledger control A/c Dr.			
To Production O/h A/c	To Production O/H control A/c			
(Being overheard T/s to Production)	(Being overheard T/s to Production)			

Integral & Non Integral Accounting system

Wages Journal Entries (Financial Accou	nting vs Cost Accounting)
1. Wages paid (Direct)	
Wages A/c Dr.	Wages control A/c Dr.
To Cash/Bank A/c	To General Ledger Control A/c
(Being wages paid)	(Being wages paid)
	WIP ledger control A/c Dr.
-	To wages control A/c
	(Being wages charged to production)
2. Wages paid (Indirect) - Production	
Wages A/c Dr.	Wages control A/c Dr.
To Cash/Bank A/c	To General Ledger Control A/c
(Being wages paid)	(Being wages paid)
	Production overhead control A/c Dr.
_	To wages control A/c
	(Being indirect wages T/s to Production
	IND ladoor control A/a Dr
_	WIP ledger control A/c Dr.
	To Production O/h control A/c
	(Being production o/h charged to product
3. Wages paid (indirect) - Administrative	
Wages A/c Dr.	Wages control A/c Dr.
To Cash/Bank A/c	To General Ledger Control A/c
(Being wages paid)	(Being wages paid)
The standard from the standard	
	Administration overhead control A/c Dr.
	To wages control A/c
	(Being indirect wages T/s to Production
	5
4. Wages paid (indirect) – selling and distribu	
Wages A/c Dr.	Wages control A/c Dr.
To Cash/Bank A/c	To General Ledger Control A/c
(Being wages paid)	(Being wages paid)
_	Selling overhead control A/c Dr.
	To wages control A/c
	(Being indirect wages T/s to Production o.

Direct expenses journal entry		
Direct expenses A/c Dr.	WIP ledger control A/c Dr.	
To Cash/Bank	To General ledger control A/c	
(Being direct expenses paid)	(Being Direct expenses paid)	
Production department A/c Dr.		
To Direct expenses A/c		
(Being direct expenses t/s to Production dept.))	
Overheads journal entries		
Production overheads control A/c Dr.	Sales entry	
To general ledger control A/c	General ledger control A/c Dr.	
(Being factory overheads paid)	To costing p&l	
	(Being sales made)	
WIP ledger control A/c Dr.		
To Production overheads control A/c	Profit/loss entry	
(Being Production overheads charged to Producti		
	To general ledger control A/c	
Administrative overheads control A/c Dr.	(Being profit t/s to capital A/c)	
To general ledger control A/c	0 11 1	
(Being Administrative expenses paid)	General ledger control A/c Dr.	
	To Costing p&I	
Selling & distribution overheads control A/c Dr.	(Being loss t/s to capital A/c)	
To general ledger control A/c	Abnormal loss/Normal loss entry	
(Being selling expenses paid)		
Transfer entries	Costing p&l A/c	
	To stores ledger control A/c	
Finished goods control A/c Dr.	(Being abnormal loss of material)	
To WIP ledger control A/c	Production overheads control A/c Dr.	
(Being factory expenses t/s FG A/c)	To stores ledger control A/c	
Finished goods control A/c Dr.	•	
To Administrative O/h control A/c	(Being normal loss of material)	
(Being admin. Expenses t/s to FG A/c)	Over recovery/Under recovery of overheads	
(Delling during). Expenses 17's 10'1 0 717 07	Costing p&I A/c Dr.	
Cost of sales A/c Dr.	To Respective Overheads	
To finished goods control A/c	(Being under recovery of overheads now recovered)	
(Being FG t/s to cost of sales A/c)	Tiboting and an recovery of everticade flow recovered.	
sg . s ./ s 10 000. 01 04100 / // 0/	Respective overheads A/c Dr.	
Cost of sales A/c Dr.	To Costing P&L	
To selling & Distribution O/h Control A/c	(Being over recovery of overheads now reversed)	
(Being selling expenses t/s to cost of sales)	J	





Topic 2: Statement of cost

S.No	Particulars	Calculations	Amount
A.	Fixed Expenses		
	License fees and insurance		
	Salaries of drivers, cleaners, and conductors		
	Garage rent		
	Depreciation		
	Taxes		
	Administrative expenses		
	Insurance, etc		
	Total		
B.	Variable Expenses		
	Petrol & diesel		
	Lubricants		
	Grease		
	Tyres		
	Total		
C.	Repairs & Maintenance		
	Repairs & Maintenance		
	Total		
D.	Total cost (A+B+C)		
	Profit		
	Total collection		

Job and Batch Costing

Topic I: Difference between Job and Batch Costing

BASIS FOR COMPARISON	JOB COSTING	BATCH COSTING
Meaning	Job costing refers to a specific costing method, used when the production/work is carried out according to the requirements of customers.	Batch costing, is a form of job costing, that is applied when the articles are produced in batches, i.e. a group of like units are produced.
Production	As per customer specification	Mass production
Product	Product have an independent identity, as each job is distinct from other jobs.	Products do not lose their individual identity, as they are manufactured in continuum.
Cost unit	Executed Job	Batch
Cost ascertainment	On the completion of each job.	Ascertained for the whole batch and then per unit cost is determined.

Topic 2: Economic Batch Quantity

Optimum Quantity that should be produced in one batch so that set up cost and carrying cost is lowest.

No of batches = $\frac{\text{Annual production}}{\text{EBQ}}$

Time between 2 batches = $\frac{360 \text{ days}}{52 \text{ weeks}}$ Mo of batches

Absorption rates

If questions does not provide any information then find out absorption rates as follows:

Factory overheads on Direct wages Admin & selling overheads on works cost

Set up cost = No of batches x Set up cost/batch

Carrying cost = \overline{EBQ} x Carrying cost per unit per annum

Topic 3: Economic Batch Quantity vs Non EBQ

Show comparison between set up cost and carrying cost of both the batch size.