

#### PYQ MAY 19\_5M\_1c

A Factory is engaged in the production of chemical Bomex and in the course of its manufacture a by-product Cromex is produced which after further processing has a commercial value. For the month of April 2019 the following are the summarised cost data:

	Joint Expenses	Separate E.	xpenses
	(₹)		(₹)
		Bomex	Cromex
Materials	1,00,000	6,000	4,000
Labour	50,000	20,000	18,000
Overheads	30,000	10,000	6,000
Selling Price per unit		100	40
Estimated profit per unit on sale of Cromex			5
Number of units produced		2,000	2,000
		units	units

The factory uses net realisable value method for apportionment of joint cost to by-products.

You are required to prepare statements showing:

- (i) Joint cost allocable to Cromex
- (ii) Product wise and overall profitability of the factory for April 2019.

#### Solution:

# (i) Statement Showing Joint Cost Allocation to 'Cromex'

Particulars	Cromex (₹)
Sales (₹ 40 × 2,000 units)	80,000
Less: Post Split Off Costs (4,000+18,000+6,000)	(28,000)
Less: Estimated Profit (₹ 5 × 2,000 units)	(10,000)
Joint cost allocable	42,000

## (ii) Statement Showing Product Wise and Overall Profitability

Particulars	Bomex (₹)	Cromex (₹)	Total (₹)
Sales	2,00,000	80,000	2,80,000
Less: Share in Joint Expenses	(1,38,000)*	(42,000)	(1,80,000)
Less: Post Split Off Costs	(36,000)	(28,000)	(64,000)
Profit	26,000	10,000	36,000

(\*) 1,80,000 - 42,000



### PYQ NOV 19\_5M\_1c

A Factory produces two products, 'A' and 'B' from a single process. The joint processing costs during a particular month are :

Direct Material₹30,000Direct Labour₹ 9,600Variable Overheads₹ 12,000Fixed Overheads₹ 32,000

Sales: A- 100 units@ ₹600 per unit; B – 120 units @ ₹200 per unit.

- I. Apportion joints costs on the basis of:
  - (i) Physical Quantity of each product.
  - (ii) Contribution Margin method, and
- II. Determine Profit or Loss under both the methods.

#### Solution:

#### **Total Joint Cost**

	Amount (₹)
Direct Material	30,000
Direct Labour	9,600
Variable Overheads	12,000
Total Variable Cost	51,600
Fixed Overheads	32,000
Total joint cost	83,600

#### Apportionment of Joint Costs:

	3		Product-A	Product-B
I. (i)		Apportionment of Joint Cost on the basis of 'Physical Quantity'	₹ 38,000 \[ \frac{₹83,600}{100 + 120 \text{ units}} × 100 \]	₹ 45,600 \[ \big( \frac{₹ 83,600}{100 + 120 \text{ units}} \times 120 \big)
	(ii)	Apportionment of Joint Cost on the basis of 'Contribution Margin Method':		
_		- Variable Costs (on basis of physical units)	₹ 23,455 \[ \frac{₹51,600}{100 + 120 units} × 100 \]	₹ 28,145 $\left(\frac{₹51,600}{100+120\text{units}} \times 120\right)$
		Contribution Margin	<b>36,545</b> (₹600×100 – 23,455)	-4,145 (₹200×120 – 28,145)
		Fixed Costs*	₹ 32,000	
		Total apportioned cost	₹ 55,455	₹ 28,145



(iii)	Profit or Loss:				
Wher	Joint cost apportioned on ba	sis of physical units	11		
A.	Sales Value	₹ 60,000	₹ 24,000		
В.	Apportioned joint cost on basis of 'Physical Quantity':	₹ 38,000	₹ 45,600		
A-B	Profit or (Loss)	22,000	(21,600)		
When Joint cost apportioned on basis of 'Contribution Margin Method'					
С	Apportioned joint cost on basis of 'Contribution Margin Method'	₹ 55,455	₹ 28,145		
A-C	Profit or (Loss)	₹ 4,545	₹ (4,145)		

<sup>\*</sup> The fixed cost of ₹ 32,000 is to be apportioned over the joint products A and B in the ratio of their contribution margin but contribution margin of Product B is Negative so fixed cost will be charged to Product A only.



#### PYQ NOV 20\_5M\_1c

A company's plant processes 6,750 units of a raw material in a month to produce two products 'M' and 'N'.

The process yield is as under:

Product M 80%

Product N 12%

Process Loss 8%

The cost of raw material is ₹80 per unit.

Processing cost is ₹ 2,25,000 of which labour cost is accounted for 66%. Labour is chargeable to products 'M' and 'N' in the ratio of 100:80.

Prepare a Comprehensive Cost Statement for each product showing:

- (i) Apportionment of joint cost among products 'M' and 'N' and
- (ii) Total cost of the products 'M' and 'N'.

#### Solution:

#### **Comprehensive Cost Statement**

Particulars	Total Cost (₹)	Product-M (₹)	Product-N (₹)
No. of units produced *	(4)	5,400 units	810 units
Cost of raw material (₹ 80 × 6,750 units)	5,40,000		20 303 (2002)(302)
Processing cost:			
- Labour cost (₹ 2,25,000 × 66%)	1,48,500		
- Other costs (₹ 2,25,000 - 1,48,500)	76,500		
Total joint cost	7,65,000		
(i) Apportionment of joint costs between the joint products			
Labour cost in the ratio of 100:80	1,48,500	82,500	66,000
		$\left(\frac{1,48,500\times100}{180}\right)$	$\left(\frac{1,48,500\times80}{180}\right)$
Other joint costs (including material) in the ratio of output (5,400:810)	6,16,500	5,36,087 $\left(\frac{6,16,500\times5,400}{6,210}\right)$	$     \begin{pmatrix}       80,413 \\       \left(\frac{6,16,500 \times 810}{6,210}\right)     \end{pmatrix} $
(ii) Total product cost	7,65,000	6,18,587	1,46,413

<sup>\*</sup> No. of units produced of Product M = 6750 units x 80% = 5400 units

No. of units produced of Product N = 6750 units x 12% = 810 units



## PYQ JAN 21\_10M\_4b

Mayura Chemicals Ltd buys a particular raw material at ₹ 8 per litre. At the end of the processing in Department- I, this raw material splits-off into products X, Y and Z. Product X is sold at the split-off point, with no further processing. Products Y and Z require further processing before they can be sold. Product Y is processed in Department-2, and Product Z is processed in Department-3. Following is a summary of the costs and other related data for the year 2019-20:

Particulars	Department			
	1	2	3	
Cost of Raw Material	₹4,80,000	(20)	=	
Direct Labour	₹70,000	₹4,50,000	₹6,50,000	
Manufacturing Overhead	₹48,000	₹2,10,000	₹4,50,000	
		Products		
	Х	Y	Z	
Sales (litres)	10,000	15,000	22,500	
Closing inventory (litres)	5,000	-	7,500	
Sale price per litre (₹)	30	64	50	

There were no opening and closing inventories of basic raw materials at the beginning as well as at the end of the year. All finished goods inventory in litres was complete as to processing. The company uses the Net-realisable value method of allocating joint costs.

You are required to prepare:

- (i) Schedule showing the allocation of joint costs.
- Calculate the Cost of goods sold of each product and the cost of each item in (ii) Inventory.
- (10 Marks) (iii) A comparative statement of Gross profit.



# (i) Statement of Joint Cost allocation of inventories of X, Y and Z

		Total		
	X (₹)	Y (₹)	Z (₹)	(₹)
Final sales value of total production (Working Note 1)	4,50,000 (15,000 x ₹ 30)	9,60,000 (15,000 x ₹ 64)	15,00,000 (30,000 x ₹ 50)	29,10,000
Less: Additional cost		6,60,000	11,00,000	17,60,000
Net realisable value (at split-off point)	4,50,000	3,00,000	4,00,000	11,50,000
Joint cost allocated (Working Note 2)	2,34,000	1,56,000	2,08,000	5,98,000

# (ii) Calculation of Cost of goods sold and Closing inventory

	Products			Total
	X (₹)	Y (₹)	Z (₹)	(₹)
Allocated joint cost	2,34,000	1,56,000	2,08,000	5,98,000
Add: Additional costs		6,60,000	11,00,000	17,60,000
Cost of goods sold (COGS)	2,34,000	8,16,000	13,08,000	23,58,000
Less: Cost of closing inventory (Working Note 1)	78,000 (COGS × 100/3%)	<del></del>	3,27,000 (COGS × 25%)	4,05,000
Cost of goods sold	1,56,000	8,16,000	9,81,000	19,53,000

#### (iii) Comparative Statement of Gross Profit

		Total		
	X (₹)	Y (₹)	Z (₹)	(₹)
Sales revenue	3,00,000 (10,000 x ₹ 30)	9,60,000 (15,000 x ₹ 64)	11,25,000 (22,500 x ₹ 50)	23,85,000
Less: Cost of goods sold	1,56,000	8,16,000	9,81,000	19,53,000
Gross Profit	1,44,000	1,44,000	1,44,000	4,32,000

## **Working Notes:**

#### 1. Total production of three products for the year 2019-2020

Products	Quantity sold in litres	Quantity of closing inventory in litres	Total production	Closing inventory percentage (%)
(1)	(2)	(3)	(4) = [(2) + (3)}	(5) = (3)/(4)
Х	10,000	5,000	15,000	100/3
Υ	15,000	/ <del>=</del> :	15,000	
Z	22,500	7,500	30,000	25

## 2. Joint cost apportioned to each product:

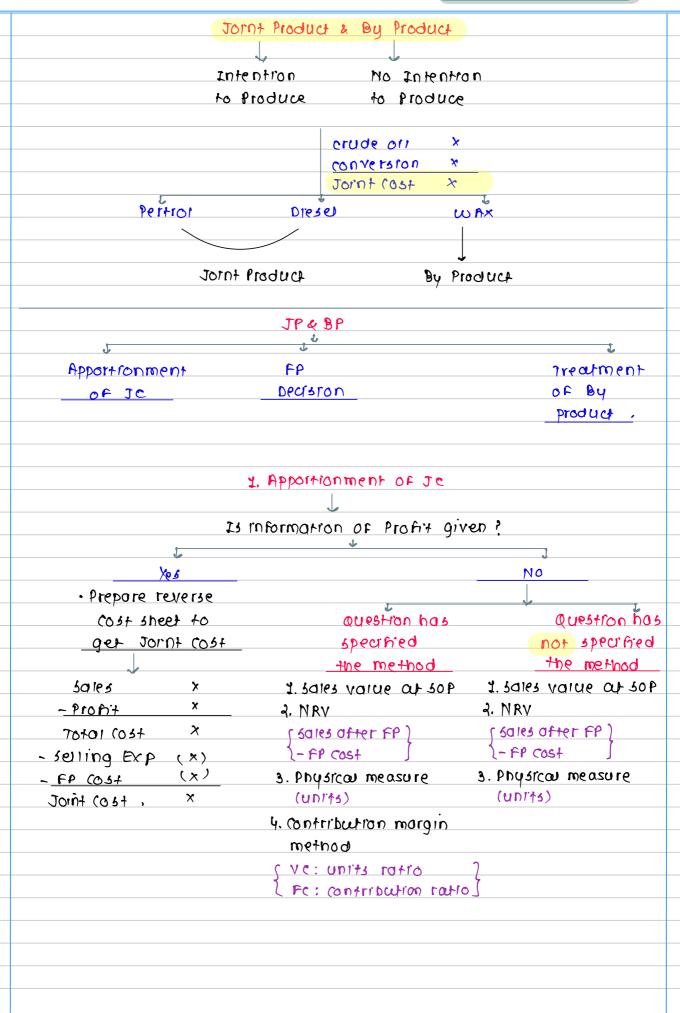
$$= \frac{\text{Total Joint cost}}{\text{Total Net Realisable Value}} \times \text{Net Realisable Value of each product}$$

Joint cost of product X = 
$$\frac{₹5,98,000}{₹11,50,000}$$
 x ₹ 4,50,000 = ₹ 2,34,000

Joint cost of product Y = 
$$\frac{₹5,98,000}{₹11,50,000}$$
 x ₹ 3,00,000 = ₹ 1,56,000

Joint cost of product Z = 
$$\frac{₹ 5,98,000}{₹ 11,50,000}$$
 x ₹ 4,00,000 = ₹ 2,08,000







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	ner 17000331	ing Decision	
	<b>b</b>		7.
Incremental Approach		Total App	roach
Sales after FP X		a) Profit of sop	
sales at sop x		50183 Q7 30P	×
Incremental sales		-Joint (05t	(X)
Incremental FP (05) (x)		<u> </u>	x
encremental profit / (1033) ×/(x)	)		
	\	b) Profit Ofter FP:	
Profit(	<u>।०२२)</u>	sales after fp	×
	e at	- Joint (0st	(x)
•	op .	- FP (05+	( x )
•			X
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		IF (b) is higher:	
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Treaked as		Treated as	
<u> </u>		main product	
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- NRV of By Product (x)			
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		wrii be apportioned	between
will be apportioned between		Joint Products & By Product	
Jornt Products.		(Petror, presel &	
(Petrol & Dresel)			



		CA	RAHUL PANCH
MAY 19			
1. Joint cost of	Cromex:		
Sales (५००० x प्र		3	
Profit (2000 x 5)		s)	
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- FP COS+	(98000	) (4000+1800	10+6000)
Joint cost of Cro	mex 42000		
(WN4): Jornt Cost of	Bornex:		
70tai Joint (03		(100,000 + 50,00	00+30000)
- Joint Cost of Cri			
Joint (OSt OF B	omex 138000		
2. Profitability:			
Patriculars	Bonex	Cromex	TOtal
<u>୧</u> ୯ । ୧୧	200,000	80,000	280000
	(2000×100)	(2000 x40)	
- <u>Cost:</u>			
Jorna (OSA	( 0008 61 )	(42000)	(180,000)
FP (05+	(36000)	(18000)	(64000)
Profit	२६०००	10,000	36000



				CA RAHUL	PANCHAL
Nov 19					
(WN-1): Jornt Co	O6+:				
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Dilect Fol		960			
varioble		1200			
vorioble		5160			
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11,49 01		83600			
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			•		
7	<u>(COU QUOI</u>	•	Joint Cost		
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10700	<u> </u>	` `		TH 1:20	
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		(9/10/01/91//		,	ribution is
			nenative	for product	
			9	be allocated	
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2. Profitabilit	·u:				
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	,	•		(0002+320)	
Profit	<b>२२००</b> ७	(२१६००)			(4145)
				' ·	



			CA RAHUL PANCHAL	
Nov 20				
(WN-1): Joint COST:				
materiau (		540,000		
Processing				
· labour (2	22000 x 66%)	148500		
· Other (2	32000-148200)	76500	(1): 0028 41: Tuodal	
		765000	— other : 616500; UI	nits ratio
1. Apportionment				
			Total Joint Cost	
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(6750 × 10		(148200×80/1		
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0	· ·	76500) (100:80		
	(340)000+	/6200) (100.80)	)	



JAN 21					
(wn-1): summary:		Det	)† <i>[</i>		
<i>-</i>			materia	บ	480,000
			Lobour	-	70,000
			manufa	octuring of	48000
			Joint (		598000
	×	· ·	اه ا	7	Ž
Quantity Produced	15000	120	00	30,00	30
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sales at sop	000,024	x		x	
			Dept 2		)ept 3
	FP		450,000		620,000
	COSE	OH	210,000		450,000
			660,000		1100,000
		<u> </u>		7	·
Quantit	y Produced	1200	30	30,00	
	p	× 6 1	4	×Sc	
Sales af		960,0	000	1500,0	000
(WN=2): Quantity Pro	duced:				
Porticulors			ų		<b>Z</b> J
Quantity soid	10,00		15000	<b>૨</b> ૨	002
+ closing for	5000		_	7	002
-opening FG	1		~		
Quantity Produced	15000	1	15000	30,	000
, , , , ,					
1. Apportionment of	Joint (Ost: (	NRV metho	sd)_		
Product (sales of			Joint	<u>Cost</u>	
X		),OOO	२३५०००		
4 (960,000 -	660,000) 300	2000	156000		
z (1500,000 -	1100,000) 400	0000	408000		
Total	1150	2000	598000		
2. COCHS & Profit:					
Porticulors	X		<u> </u>		
Joint Cost	234000		5000	SO 800	36
FP COST	-	660	0,000	1100,0	000
cost of froduction	234000	816	000	13080	<b>C</b> CC
- crossing stock	(78000)			( ३२७००	
-	₹34000 × 500	6}		1308000	(0025X
	15000	<u> </u>		30,000	
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+ bloy.+	(144000	[440	00)	14400	
Soles (atysoid XSP)	300,000	960,00		115200	
	(0ex 000,01)	(15000 ×	(64)	(	0)



#### PYQ NOV 23\_5M\_1c

XYZ Limited manufactures three joint products A, B and C from a joint process. Product B is sold at split off point whereas product A and C are sold after further processing. 10% of the quantity of product A is lost in further processing. Data regarding these products for the year ending 31st March, 2023 are as follows:

	А	В	С
Number of units produced and sold	3,60,000	2,10,000	4,50,000
Selling price per unit at split off point	-	₹6	<u>=</u>
Selling price per unit after further processing	₹9.50	-	₹12
Further processing costs	₹8,60,000	-	₹10,40,000

The joint production cost upto the split off point at which A, B and C become separable products is ₹57,26,000.

## Required:

- (i) Prepare a statement showing apportionment of joint cost to the products using Net realizable value method.
- (ii) Assume XYZ Limited has received an offer from D Limited to purchase product 'A' at the split off point at ₹7 per unit and another company PQR Limited has offered to purchase product 'C' at split off point at 9 per unit.

Advise whether these offers should be accepted or not?

(5 Marks)



#### PYQ MAY 23 10M 4a

ABC Company produces a Product 'X' that passes through three processes: R, S and T. Three types of raw materials, viz., J, K, and L are used in the ratio of 40:40:20 in process R. The output of each process is transferred to next process. Process loss is 10% of total input in each process. At the stage of output in process T, a by-product 'Z' is emerging and the ratio of the main product 'X' to the by-product 'Z' is 80:20. The selling price of product 'X' is ₹60 per kg.

The company produced 14,580 kgs of product 'X'

Material price : Material J @ ₹15 per kg; Material K @ ₹9 per kg.

Material L@ ₹7 per kg Process costs are as follows:

Process	Variable cost per kg (₹)	Fixed cost of Input (₹)
R	5.00	42,000
S	4.50	5,000
T	3.40	4,800

The by-product 'Z' cannot be processed further and can be sold at ₹30 per kg at the splitoff stage. There is no realizable value of process losses at any stage.

## Required:

Present a statement showing the apportionment of joint costs on the basis of the sales value of product 'X' and by-product 'Z' at the split- off point and the profitability of product 'X' and by-product 'Z. (10 Marks)



#### PYQ NOV 22\_5M\_5c

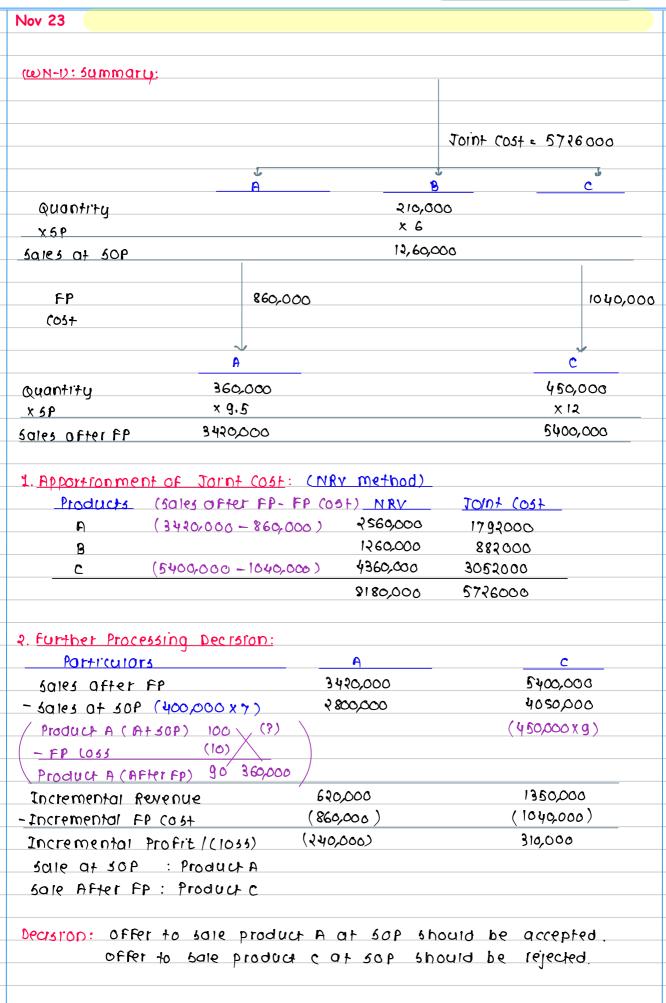
ASR Ltd mainly produces Product 'L' and gets a by-Product 'M' out of a joint process. The net realizable value of the by-product is used to reduce the joint production costs before the joint costs are allocated to the main product. During the month of October 2022, company incurred joint production costs of ₹ 4,00,000. The main Product 'L' is not marketable at the split off point. Thus, it has to be processed further. Details of company's operation are as under:

Particulars	Product L	By- Product M
Production (units)	10,000	200
Selling price per kg	₹45	₹5
Further processing cost	₹1,01,000	-

You are required to find out:

- (i) Profit earned from Product 'L'.
- (ii) Selling price per kg of product 'L', if the company wishes to earn a profit of ₹1,00,000 from the above production. (5 Marks)

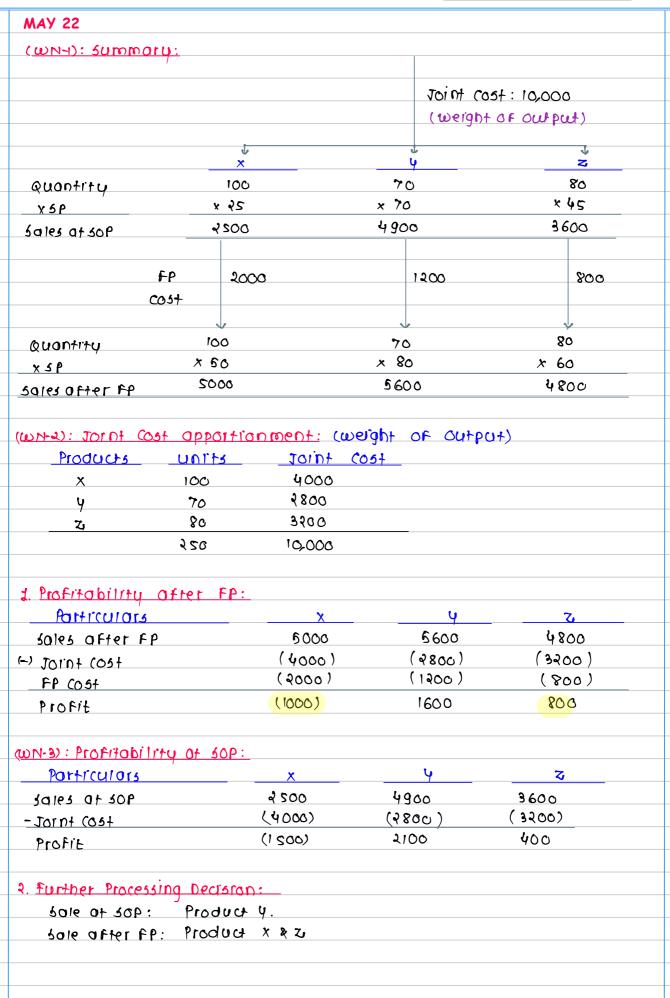




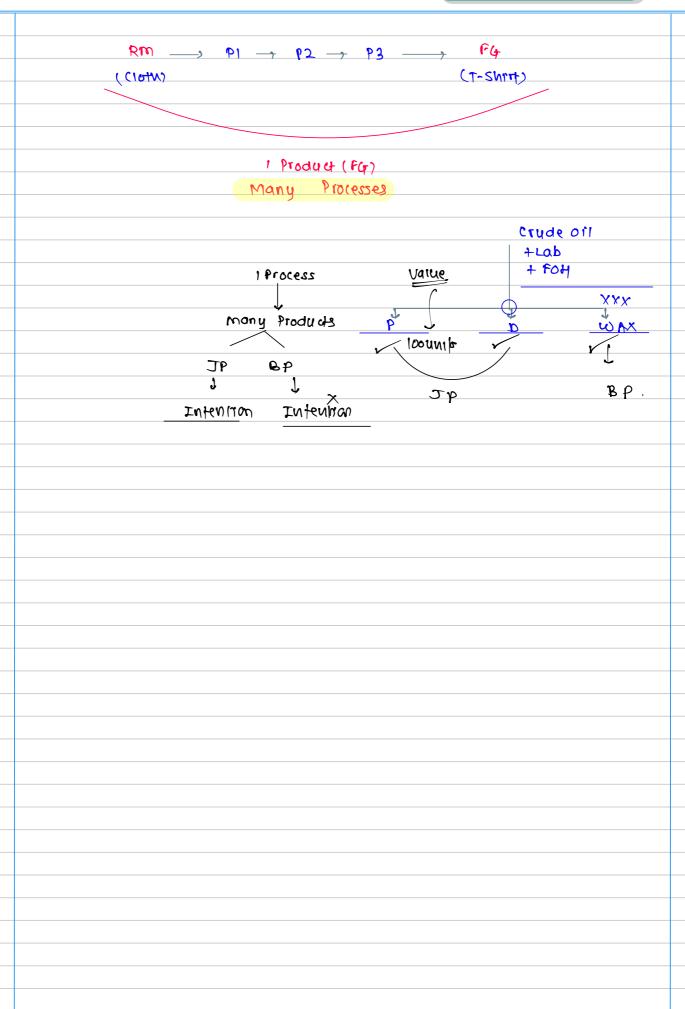


	CA RAFIOL FAIN	Crini
N 22		
(WN-1): Joint Cost of Product:		
Total Joint (054	400,000	
- NRV OF By Product (200 xs)	(1000)	
	399000	
1. Profit from Product:		
50183 (10,000 x 45)	450,000	
- Joint cost (WN-1)	(399000)	
- FP CO5+	(101000)	
105.5	(50,000)	
2. Selling Price of Product (:		
Joint cost (WN-1)	3 99000	
FP (05+	101000	
To rai (05+	\$00,000	
Profit	100,000	
Sales	600,000	
÷ sales avantity	- 10,000	
selling Price per unit.	60	
J ,		











In an Oil Mill four products emerge from a refining process. The total cost of input duri ng the quarter ending March 20X8 is ₹1,48,000. The output, sales and additional processing costs are as under:

Products	Output in Litres	Additional processing cost after split off (₹)	Sales value (₹)
ACH	8,000	43,000	1,72,500
ВСН	4,000	9,000	15,000
CSH	2,000	-	6,000
DSH	4,000	1,500	45,000

In case these products were disposed-off at the split off point that is before further processing, the selling price per litre would have been:

ACH (₹)	BCH (₹)	CSH (₹)	DSH (₹)	
15.00	6.00	3.00	7.50	

PRODUCE a statement of profitability based on:

- (i) If the products are sold after further processing is carried out in the mill.
- (ii) If they are sold at the split off point.

#### Solution:

(MN-1): Summory:

Joint	cost:	148000
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1500

	A	<u></u>	<u></u>	<u>D</u>
Quantity	8000	५०००	2000	4000
x 5P	XIS	Х6	<b>×3</b>	x 7.5
Sales at sop	120,000	२५०००	6000	30,000

sales after FP	172600	18000	45000

#### (WN-2): Apportionment of JC:

FP COSt: 43000 9000

(If question is stient then we assume that company follows sales raive at SOP method).

Products	sales at sop	Jorn + COSH	
A	120,000	98667	
B	२५,०००	19733	
C	6,000	4933	
D	30,000	24667	
Total	180,000	148000	



1. Profit (IF PI	roducts are	sold after	FP)		
Particulars	A	9	c	D	total
sales offer FP	172500	18000	6000	00024	238500
+> Joint cost	(98667)	(19733)	(6894)	(24667)	(148000)
(-) FP (05+	(000 64)	(9000)	_ ′	(1500)	(23,200)
Profit / (1055)	30833	(13733)	1067	18833	37000
(100)		·	<u>'</u>		
2 Profit (IF Prod	ducts are so	old at sop)	:		
Particulars	A	8	c	D	Total
sales at sop	120,000	२५०००	6000	30,000	180,000
(-) Joint Cost	(98667)	(19733)	(4933)	(२५667)	(148000)
Profit ( (1055)	21333	4267	1667	5333	92000
1.0111 (105.5)	· • • • • • • • • • • • • • • • • • • •	1 (0)		, , , ,	<i>y</i> ( <b>66</b> )



A Company manufactures one main product (M1) and two by-products B1 and B2. For the month of January 2013, following details are available:

Total Cost up to separation Point ₹ 2,12,400

	M1	B1	B2
Cost after separation	# <u>#</u> V	₹ 35,000	₹ 24,000
No. of units produced	4,000	1,800	3,000
Selling price per unit	₹ 100	₹ 40	₹ 30
Estimated net profit as percentage to sales	(#)	20%	30%
Value			
Estimated selling expenses as percentage	20%	15%	15%
to sales value			

There are no beginning or closing inventories. Prepare statement showing:

- i) Allocation of joint cost; and
- ii) Product-wise and overall profitability of the company for January 2013.

#### Solution:

Statement showing	Joint Cost &	Profit:		
Particulars	$m_1$	<b>©</b> 1	<b>&amp;</b> 2	Total
toint (ost	175100	(1800)	00225	212400
FP (ost	~	35000	2 4000	00002
selling Exp	80,000	10800	00261	104300
	(4L R20%)	(72000×15%)	(90,000 ×15%)	,
Total (osf	355100	57600	63000	375700
+ Prohit	(144900)	14400	27000	(186300)
		(72000 X20%)	( NO EXOOO'Ob)	
Sales.	400,000	72000	90,000	5 6 2 <i>0</i> 00
	(4000 ×100)	(1800 X 40)	(3000 x30)	

Joint (ost of m1 = 212400 - 11800 - 25500 = 175100



FC 500  JC 1500  Ty 60 40  P X 15 X 70  Tes 900 800  Priorman Joint (ast using Contribution margin method.  Stution:  Study by vc sales Contribution FC  A 60 600 900 300 214	
* Contribution margin method.	
, and the second	
Example: Vc 1000	
JC 1500	
A B	
B 40 400 800 400 286	
Total 100 1000 1700 700 500	
unite (contribution)	
Ratio Ratio	



A factory produces two products, 'Ghee' and 'Cream' from a single process. The jointprocessing costs during a particular month are:

Direct Material ₹ 60,000 **Direct Labour** ₹ 19,200 ₹ 24,000 Variable Overheads Fixed Overheads ₹ 64,000

Sales: Ghee - 200 litre @ ₹ 600 per litre; Cream - 240 litre @ ₹ 200 per litre. REQUIRED:

- I. Apportion joints costs on the basis of:
  - (i) Physical Quantity of each product.
  - (ii) Contribution Margin method, and
- II. Determine Profit or Loss under both the methods.

#### Solution:

(WN-1): SUMMORY:

VC 103200 (60,000+19200+24000) 64000 FC

JC 167200

	Gree	Cream
Quantity	200	२५०
χ 5 Ρ	x 600	× 200
Sales at sop	120,000	५ १०००

1) Physical Quantity method

(Sales-(Ost)

Product	Quantitu	Joint Cost	sales	Prost
Chee	२००	76000	120,000	44000
Cream	२५०	91200	48000	(43200)
Total	ય ય ૦	167200	168000	800

<b>2</b> )	Contribution	margin	method:	(20162-Ac)

	Product	Quantity	<u>V c</u>	sales	<u>Contribution</u>	<u>rc</u>	Pro hit
	Chee	२००	46909	120,000	73091	64000	9091
	Cream	२५०	5 6291	48000	(8291)	~	(8291)
	Total	य व ०	103200	168000	64800	64000	800
I		(	units	1		(Contribu	
T			, G	<b>,</b>		4	7

Ratio ∫

Ratro



'Buttery Butter' is engaged in the production of Buttermilk, Butter and Ghee. It purchases processed cream and let it through the process of churning until it separates into buttermilk and butter. For the month of January, 2020, 'Buttery Butter' purchased 50 Kilolitre processed cream @ ₹ 100 per 1000 ml. Conversion cost of ₹ 1,00,000 were incurred up-to the split off point, where two saleable products were produced i.e. buttermilk and butter. Butter can be further processed into Ghee.

The January, 2020 production and sales information is as follows:

Products	Production (in Kilolitre/tonne)	Sales Quantity (in Kilolitre/tonne)	Selling price per Litre/Kg (₹)
Buttermilk	28	28	30
Butter	20	-	_
Ghee	16	16	480

All 20 tonne of butter were further processed at an incremental cost of ₹ 1,20,000 to yield 16 Kilolitre of Ghee. There was no opening or closing inventories of buttermilk, butter or ghee in January, 2020.

#### Required:

- (i) SHOW how joint cost would be apportioned between Buttermilk and Butter under Estimated Net Realisable Value method.
- (ii) 'Healthy Bones' offers to purchase 20 tonne of butter in February at ₹ 360 per kg. In case 'Buttery Butter' accepts this offer, no Ghee would be produced in February. SUGGEST whether 'Buttery Butter' shall accept the offer affecting its operating income or further process butter to make Ghee itself?

#### Solution:

Solution.					
(WN-1): Summar	<u>u:</u>				
				cream:[sox100	1) x 100]= 50L
				CONVersion	1上
				Joint Cost	512
		<b>J</b>			<u></u>
	<u></u>	utermilk			Butter
Quantity	(28×1000)	२ ४०००		(30 × 1000)	20,000
x sp (per litre)		X 3 0			x 360
Sales at sop		840,000			<i>7</i> २००,०००
				Fp	120,000
				(05+	
1 Ki1011'tre = 1000	11'tres				
					nee
			Quanti	ty (16 ×1006)	16000
			<u> </u>		x 480
			Sales ofter	FP	680,000



Apportionment of Joint Cost (NRV Particulars (Sales Ofter FP - FP C		JC
Particulars (Sales Offer FP - FP C Buttermrik		510,000
Butter (7680,000 -120,000)		\$ 90,000
30114		700,000
further processing decision:		
Partrauars		Total
sales after ff (Ghee)		7680,000
sales at sop (Butter) (Offer)		7200,000
Incremental Sales		480,000
- Incremental FP Cost	~	120,000
Propit		360,000
Decision: Company should sell of	ter FP (ie.Ghaa)	
· OFFER OF BUTTER (1. e to		
		·



A Factory is engaged in the production of chemical Bomex and in the course of its manufacture a by-product Cromex is produced which after further processing has a commercial value. For the month of April 2019 the following are the summarised cost data:

	Joint		Separate Expenses (₹)				
		Expenses (₹)		Bomex		Cromex	
Materials		1,00,000	(	6,000		4,000	
Labour 180		50,000	36K ~	20,000	28K~	18,000	
Overheads		30,000		10,000		6,000	
Selling Price per unit				100		40	
Estimated profit per unit on sale of Cromex						5	
Number of units produced				2,000 units		2,000 units	

The factory uses net realisable value method for apportionment of joint cost to by-products.

You are required to prepare statements showing:

- (i) Joint cost allocable to Cromex
- (ii) Product wise and overall profitability of the factory for April 2019.

#### Solution:

Statement showing Jo	oint cost & Pro	670	,000-28000)
Porticulors	Bonex_	Cromer_	Total
Jornt (OSt (180K-42K)	138000	42000	180,000
FP (05+	36000	28000	64000
Total (05t	174000	70,000	२ ५५०००
+P1094	(36000)	10,000	(36000)
		(511000)	
50162	200,000	80,000	२ ६०,०००
	(100 x2000)	(40 x2000)	
		reverse	
		cost sheet	



					CA KAPIUL	TANCTIA	
* Quan	titu	Qp: Quantity	Produced				
		Qs: Quantry					
				inment of	e Jc		
		300		Q P			
	A	B	Product	Q PXSP	Sales	JC	
QP	100	100		100 110		100	
<u>Q</u> S	100	•	B	100 x 20	२००७	२०८	
closing	•	100			3000	300	(Right)
5 P	10	२०					
	on Je ba	seg av		20			
bates a			Produce	Q5 ×5P	50.163	JC	
·	<u> </u>		A	100 % 10	1000	300	
			<u>19</u>	- × 20	_		
					1000		
. ^	JC wrii	be apportione	d based	A10 S (1)	e tlaute	Δ£	
	<b>ω</b> , , ,	2			nh ry pro		
					QPXSP		
				(17.	QPXSP	')	



A company's plant processes 6,750 units of a raw material in a month to produce two products 'M' and 'N'.

The process yield is as under:

Product M 80%
Product N 12%
Process Loss 8%

The cost of raw material is ₹ 80 per unit.

Processing cost is ₹ 2,25,000 of which labour cost is accounted for 66%. Labour is chargeable to products 'M' and 'N' in the ratio of 100:80.

Prepare a Comprehensive Cost Statement for each product showing:

- (i) Apportionment of joint cost among products 'M' and 'N' and
- (ii) Total cost of the products 'M' and 'N'.

#### Solution:

(WN4): Summory:	<u>units</u>				
Ţ-	6750	materral: (6750x80): 540,000			
		Labour (235000x 66%) 148500			
		other (225000x34%) 76500			
		Joint (0st 765000			
	r r	, v			
Quantity:	(6750×80%)	( 6750 X12%)			
- '	5400	810			
1. Statement showing	o Total (ast:				
	3	N			
material		5 70435			
(540,000 in 540					
Labour	00 <i>2</i> \$ 8	66000			
(148500 in 100:80)		7 7 55			
other	66522	9978			
(76500 in 5400:8	10)				
76t01 (05t .	618587	१५ ६५। ३			
, , , , , ,	5,75,7				