University of Jordan Department of Industrial Engineering Cost Accounting Midterm 30% Q1 (6 pts) Please state whether each of the following statements is Troe/False. Then, correct the false part 1- In normal and actual costing systems, the actual indirect manufacturing costs are included in job cost. Moderal (- Felse) 2- An increase in sales beyond the breakeven quantity results in increase in operating leverage. (False Jacobse) When sales increases by 50%, the operating income increases by 50% xoperating leverage xcontribution margin. (---5- When the safety of margin increases, the risk of loss increases, (- False, James) 6- Overtime and undertime in merchandising industry are generally considered indirect costs. (-535 (-535)...) 7- In the written-off approach, the under-or – over allocated are included in the fips shed goods inventory. () 8- The variation from normal approach and normal costing both result in the same actual indirect costrate (Tre.) 9- In costing systems, it is generally preferred to use longer periods to calculate the indirect cost rate (10. When machine depreciation is related to the number of machine hours, depreciation is considered variable cost. 12. The expected quantities of products A, B, and C are 360, 240, and 600, respectively. The product mix ratio is then 3:2:4. (- False 13:2:5)

Q 2 (6 pts) Company ABS is a chain of electronic stores that sells 10 different types of electronic accessories with identical unit cost and selling price. Given the following data:

Description	Amount (\$)	Description	Amount
Cost of electronic unit (V)		Salaries (F)	\$ 260,000
Sales commission (V)	5% sales	Advertising (F)	\$ 100,000
Selling price (V)	30	Quantity sold	35,000 units

(a) Contribution margin per unit (

CAPA CAPA: 5-VC

(b) The annual breakeven point in revenues. (*** 2885211.4 (947268.4)

BCP = FIXA

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(c) Operating income (loss)= (60,000

Q3 (4 pts). Given the following information (1000 \$) about ABC Company.

Direct material purchased	175	Direct material inventory Jan, 2021	31
Direct manufacturing labor	195	Work-in-process inventory Jan, 2021	49
Overhead costs = 35% conversion costs		Finished goods inventory Jan., 2021	45
Prime costs	309	Costs of goods available for sale	465
Gross margin percentage based on	25 %	Revenues	515

Calculate for December 2021 the following:

(a) Finished goods Inventory (...43

(b) Direct materials inventory (--- 91).



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.4 (8) ABC company uses the Normal costing system for 2021 with two direct cost pools for material and labor, and one indirect cost pool and direct labor costs as the cost allocation base. The company had no finished goods inventories. The following information was known about the firm for 2021.

escription	Amount (S)	Description	
udgeted material costs	1000		Amount (\$
udgeted labor costs	4000	Actual material costs ~	
udgeted overhead costs	3000	Actual labor costs	(3600)
udgeted labor hours	(200)	Actual overhead costs	2500
and under upply	(200)	Actual labor hours	180

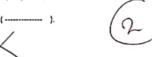
There was no work in process on Jan. 2021 and there were two jobs/batches in process on Dec., 31, 2021.

Description		, 51, 2021.
- Direct material costs (\$)	Batch A	Batch B
Direct labor costs (5)	25	15
Direct ignor costs (2)	20	32

Calculate:

(a) The indirect cost rate using normal costing (15). 304 = 0.75

(c) The balance in costs of goods sold (-----).



3

(d) The under-or over allocated overhead (____Spa__),

= Actual indirect cossis - Indirect allocated

= 2500 - 3000 = - Sec

10 The under-or over allocated (___Spa__),

- 2500

- 2500

- 2500

- 2500

- 2500

- 2500

Q5 (6 pts) Company ABS is a chain of electronic stores that sells 3 different types (A, B, C) of electronic accessories with contribution margin of § 3, \$ 2, and \$ 1, respectively. The expected sales are 20,000, 100,000, and 80,000 units of A, B, and C, respectively. The fixed costs = \$ 255,000. Assuming the product mix is maintained, calculate:

(a) Contribution margin of the bundle ()

2:1018

17

(b) Total number of units from all types to breakeven (9,0000).

15000 x 1 + 15000 x 2 + 1500 0 x y

(c) The operating income when 200,000 units are sold (2,145,000).

CM = 200,000 x3 = 600,000

CM3 2 200,000 × 1 × 4 = 800,000

01=cm++cm++cm> = = 2145000

OL = CM = 2400000 = 1.118

Q5 (6 pts) Company ABS is a chain of electronic stores that sells 3 different types (A, B, C) of electronic accessories with contribution margin of § 3, \$ 2, and \$ 1, respectively. The expected sales are 20,000, 100,000, and 80,000 units of A, B, and C, respectively. The fixed costs = \$ 255,000. Assuming the product mix is maintained, calculate: (a) Contribution margin of the bundle (-17) 2:1018 1:6:4 3x 1 + 5x2+4x1 17 (b) Total number of units from all types to breakeven (9,5000). BEP in bundle - 255,000 = 15000 15000×1 + 15000 X2+ 1550 0X4 (c) The operating Income when 200,000 units are sold (2145,009) CM1 = 200,000 +3 = 600,000 CME = 2001000 K2 X 5 = 10000000 CM3 L 200,000 × 1 × 4 = 800,000 0] = CM+CM++ CM3 - F = 2/4 5,000 OL = CM = 2400000 = 1.118 L. -1-سع nn; Illu

1	
	University of Jordan
1	Department
	Cost Accounting Midterm 30% Student Name:
	Q1 (6 pts) Please
	1. Street the following statements is frue/False. Then, correct the false part
1	In normal and actual costing systems, the actual indirect manufacturing costs are included in job cost.
2	- An increase in sales beyond the breakeven quantity results in increase in operating leverage in decrease
١.	increase in operating leverage 19.115. 115CTEQS
3	When sales increases by 50%, the operating income increases by 50% xoperating leverage xcontribution margin. (
	Nonprofit organizations are characterized by zero net income. [] True]
	When the safety of margin increases, the risk of loss increases (Lake, destaces)
	Overtime and undertime in merchandising industry are generally considered indirect costs. (false period cost
	In the written-off approach, the under-or – over allocated are included in the finished goods inventory. (False
8-	The variation from normal approach and normal sortion both
9.	The variation from normal approach and normal costing both result in the same actual indirect cost rate. fulse In costing systems, it is generally preferred to use longer periods to calculate the same actual indirect cost rate. fulse
10	A triber machine depreciation is related to the number of machine hours.
	(False, Indirect
11	The operating leverage always equals to one when there is fixed cost. (Folse no Fixed cost
12	The expected quantities of products A, B, and C are 360, 240, and 600, respectively. The product mix ratio is then
	, W.
	1

ABC company uses the Normal costing system for 2021 with two direct cost pools for material and indirect cost pool and direct labor costs as the cost allocation base. The company had no finished generating. The following information was known about the firm for 2021.

Description	Amount (\$)	Description	Amount (\$)
Budgeted material costs	1000	Actual material costs	900
Budgeted labor costs	4000	Actual labor costs	3600
Budgeted overhead costs	3000	Actual overhead costs	2500
Budgeted labor hours	200	Actual labor hours	180

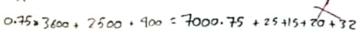
There was no work in process on Jan. 2021 and there were two lobs/batches in process on Dec., 31, 2021

2.00 (00%) 64(0.00)		
Description	Batch A	Batch B
Direct material costs (5)	25	15
Direct labor costs (\$)	20	32

Calculate:

(a) The indirect cost rate using normal costing (0.75) first labor cost

(b) The total cost of batches A and B using normal costing (7092.75).



(d) The under-or over allocated overhead (=200 over allocate d

(e) The direct labor rate per labor hour using variation from normal costing (201) hour

Q5 (6 pts) Company ABS is a chain of electronic stores that sells 3 different types (A, B, C) of electronic accessoric contribution margin of \$ 3, \$ 2, and \$ 1, respectively. The expected sales are 20,000, 100,000, and 80,000 units of and C, respectively. The fixed costs = \$ 255,000. Assuming the product mix is maintained, calculate:

(a) Contribution margin of the bundle (17.5)

ratio > 1 25 84

1+3+5+2+1*4=14

(b) Total number of units from all types to breakeven (159000)

c -> 15000 *4

(c) The operating income when 200,000 units are sold (-85076.\$).





Q 2 (6 pts) Company ABS is a chain of electronic stores that sells 10 different types of electronic accessora Identical unit cost and selling price. Given the following data:

		Description	Amount
Description	Amount (S)	Description	\$ 260,000
Cost of electronic unit (V)	19.5	Salaries (F)	
Sales commission (V)	5% sales 🕞	Advertising (F)	\$ 100,000
		Quantity sold	35,000 units
Selling price (V)	30	Quantity sold	

Vc = H.5

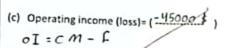
Calculate: SP=30

Q -75000 (a) Contribution margin per unit (4)

30-0.05 + 30 - 19.5 :9

(b) The annual breakeven point in revenues (10000.un)

BEP : F : 360000 : 40000



= (30-0.05-19.5) + 35000 - 360000

OI = -45000

Q3 (4 pts). Given the following information (1000 \$) about ABC Company.

175	Direct material inventory Jan, 2021
	Work-in-process inventory Jan, 2021
	Finished goods inventory Jan., 2021
309	Costs of goods available for sale
25 %	Revenues

Calculate for December 2021 the following:

(a) Finished goods inventory (787505)

GM=R-CGS

0.25R = R - CGs

CGS = 0.75 + 515000

Ending F6:465000 -386250 = 78750 \$ CGS:386250\$

(b) Direct materials inventory (42000 }

prime costs : DM + DML 30900 = DM + 195000

DM: 114000\$

Ending DM = 175000 + 31000 -114000 . 92000 \$

