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B.Sc. Engg. CSE 6th Sem.

Date: May 16, 2024

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)

ORGANISATION OF ISLAMIC COOPERATION (OIC) DEPARTMENT OF BUSINESS AND TECHNOLOGY MANAGEMENT

What are the assumptions of Cost-Volume-Profit (CVP) Analysis? Explain.

 Semester Final Examination
 Summer Semester, A. Y. 2022-2023

 Course No: HUM 4641
 Time : 3 hours

 Course Title: Accounting
 Full Marks: 1.50

Course Title: Accounting Full Marks : 150

Answer all 6 (six) questions. All questions carry equal marks. Marks of each question and corresponding CO and PO are written in the right margin within brackets.

D)	Explain different kinds of manufacturing costs with examples.	08	
c)	Distinguish between managerial and financial accounting.	08	
	John Corporation has collected the following information after its first year of sales. Sales were \$1,600,000 on 100,000 units, selling expenses \$250,000 (40% variable and 60% fixed), direct materials \$490,000, direct labor \$290,000.	25	

- administrative expenses \$270,000 (20% variable and 80% fixed), and manufacturing overhead \$380,000 (70% variable and \$0% fixed). To pranagement has asked you to do a CVP analysis so that it can make plans for the coming year. It has been projected that unit sales well increase by 10% next year. Instructions:

 1. Compute the contribution manufactor for the current year and the projected
 - Compute the contribution margin for the current year and the projected year, and the fixed costs for the current year. (Assume that fixed costs will remain the same in the projected year.
- II. Compute the break-even point in units and sales dollars for the current year.
 III. The company has a target net income of \$200,000. What are the required
- The company has a target net income of \$200,000. What are the required sales in dollars for the company to meet its target?
 If the company meets its target net income number, by what percentage
- could its sales fall before it is operating at a loss? That is, what is its margin of safety ratio?
- Megha Industries had sales in 2016 of \$6,800,000 and gross profit of \$1,100,000. 25 Management is considering two alternative budget plant to increase its gross profit in 2017. Plan A would increase the selfing price per unit from \$5,000 to \$8.40. Sales volume would decrease by 10% from its 2016 level. Plan B would decrease the selfing price per unit by \$9.50. The marketing department expects that the sales volume will increase by 100,000 units. At the end of 2016, Meghan has 40,000 units of inventory on hand. If Plan is accepted, the 2017 ording inventory should

be equal to 5% of the 2017 sales. If Plan B is accepted, the ending inventory should be equal to 60,000 units. Each unit produced will cost \$1.80 in direct labor, \$1.40 in direct materials, and \$1.20 in variable overhead. The fixed overhead for 2017 should be \$1,895,000.

Instructions

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- Prepare a sales budget and a production budget for 2017 under each plan. Compute the production cost per unit under each plan. Why is the cost per
- unit different for each of the two plans? (Round to two decimals.) Compute the gross profit under each plan. Which plan should be accented?

On April 1, Julie Spengel established Spengel's Travel Agency. The following transactions were completed during the month.

April 1: Invested \$15,000 cash to start the agency.

April 2: Paid \$600 cash for April office rent.

April 3: Purchased equipment for \$3,000 cash.

April 4: Incurred \$700 of advertising costs in the Chicago Tribune, on account. April 8: Paid \$900 cash for office supplies.

April 9: Performed services worth \$10,000: \$3,000 cash is received from customers, and a balance of \$7,000 is billed to customers on account.

April 17: Withdrew \$600 cash for personal use.

April 19: Paid Chicago Tribune \$500 of the amount due in transaction in April (4). April 25: Paid employees' salaries are \$2,500.

April 27: Received \$4,000 in cash from customers who have previously been

billed in transaction in April (9).

Instructions: Journalize the transactions.

b) An inexperienced bookkeeper prepared the following trial balance for Kwun 10 company. Prepare a correct trial balance, assuming all account balances are normal.

Kwun Company

	December 31, 2018	
Accounts Title	Debit	Credit
Cash	\$14,800	
Prenaid Insurance		\$3,500
Accounts Pavable		3,000
Unearned Revenue	2,200	
P. Kwun, Capital		13,000
P. Kwun, Drawing		4,500
Service Revenue		25,600
Salaries Expense	18,600	
Rent Expense		2,400
	\$35,600	\$52,000

THAO COMPANY Worksheet

For the Year Ended December 31, 2017

Account Titles	Adjusted Trial Balance		
	Debit (S)	Credit (S)	
Cash	5,300		
Accounts Receivable	10,800		
Supplies	1,500		
Prepaid Insurance	2,000		
Equipment	27,000		
Accumulated Depreciation-Equipment		5,600	
Notes Payable		15,000	
Accounts Payable		6,100	
Salaries and Wages Payable		2,400	
Interest Payable		600	
Owner's Capital		13,000	
Owner's Drawings	7,000		
Service Revenue		61,000	
Advertising Expense	8,400		
Supplies Expense	4,000		
Depreciation Expense	5,600		
Insurance Expense	3,500		
Salaries and Wages Expense	28,000		
Salaries and Wages Expense Interest	600		
Expense			
Totals	\$103,700	\$103,700	

Instructions:

- I. Prepare an income statement.
- Prepare a balance sheet. (Note: \$5,000 of the notes payable become due in 2018.) Thao did not make any additional investments in the business during the year.
- III. Prepare the closing entries. Use J14 for the journal page.
- IV. Prepare a post-closing trial balance.

occurred during the month.

Instructions:

6. a) Kingston Company uses job order costing and applies overhead to production 25

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month for \$122,000 and \$158,000, respectively. The following additional events I. Purchased additional raw materials of \$90,000 on account. Incurred factory labor costs of \$70,000. Of this amount \$16,000 related to employer payroll taxes. II. Incurred manufacturing overhead costs are as follows: indirect materials

\$17,000, indirect labor \$20,000, depreciation expense on equipment \$12,000, and various other manufacturing overhead costs on account \$16,000. III. Assigned direct materials and direct labor to jobs as follows.

Job No	Direct materials	Direct labor
50	\$10,000	\$5,000
51	39,000	25,000
52	30.000	20.000

- Calculate the predetermined overhead rate for 2017, assuming Lott Company estimates total manufacturing overhead costs of \$840,000, direct labor costs of \$700,000, and direct labor hours of 20,000 for the year.
- Open job cost sheets for Jobs 50, 51, and 52. Enter the January 1 balances
- on the job cost sheet for Job 50. Prenare the journal entries to record the purchase of raw materials, the
- factory labor costs incurred, and the manufacturing overhead costs incurred during the month of January. Prepare the journal entries to record the assignment of direct materials,
- direct labor, and manufacturing overhead costs to production. In assigning manufacturing overhead costs, use the overhead rate calculated in (1). Post all costs to the job cost sheets as necessary. Total the job cost sheets for any job(s) completed during the month. Prepare the journal entry (or entries) to record the completion of any job(s) during
- the month. Prepare the journal entry (or entries) to record the sale of any iob(s) during the month. What is the balance in the Finished Goods Inventory account at the end of
- the month? What does this balance consist of?
- What is the amount of over- or under-applied overhead?