MANAGEMENT ACCOUNTING - SEMESTER-4

Question No: 2

(a) Sales Revenue Budgets:

	Plain	Chocolate	Lemon
Boxes	10,000	20,000	15,000
Revenue (Rs.)	50,000	130,000	120,000

(b) Production Quantity Budget in Boxes:

	Plain	Chocolate	Lemon
Sales	10,000	20,000	15,000
Opening	1,200	2,300	1,750
Closing	1,050	2,500	1,600
Production	9,850	20,200	14,850
	1 +	1 +	1
ement Budget ir	ı kg:		\checkmark
our S	Sugar	Butter	Choo

(c) Material Requirement Budget in kg:

	FI	our	Su	ıgar	Bi	utter	Cho	colate	Le	mon	
_	Per Box	Total	Per Box	Total	Per Box	Total	Per Box	Total	Per Box	Total	-
Plain	0.4	3,940	0.1	985	0.2	1,970		-		-	
Chocolate	0.3	6,060	0.3	6,060	0.2	4,040	0.3	6,060		-	
Lemon	0.3	4,455	0.4	5,940	0.2	2,970		-	0.2	2,970	
Total Usage		14,455	$n \in \mathbb{R}$	12,985		8,980		6,060		2,970	
		1	+	1	+	1	+	1/2	+	1/2 =	4

(d) Material Purchase Budget in kg:

		-				
		Flour	Sugar	Butter	Chocolate	Lemon
	Usage	14,455	12,985	8,980	6,060	2,970
	Opening	730	820	320	<u> </u>	L
	Closing	750	800	250	<u> </u>	L
	Production	14,475	12,965	8,910	6,060	2,970
		1 +	1 +	1		
Material I	Purchase budge	et in value	: :			(Rupees)
		Flour	Sugar	Butter	Chocolate	Lemon
	Purchase	14,475	12,965	8,910	6,060	2,970
	Cost per kg	4.00	6.00	6.00	50.00	8.00
	Total cost	57,900	77,790	53,460	303,000	23,760

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MANAGEMENT ACCOUNTING – SEMESTER-4

Question No: 3

(a) (i) Decision to Accept the Offer or not, Ignoring Taxation:

Year	Cash outflow	Cash Saving	Net CF	PV Factory at 18%	PV	
0	(5,000,000)		(5,000,000)	1.0000	(5,000,000)	-
1	(16,000)	1,250,000	1,234,000	0.8475	1,045,763	
2	(216,000)	1,250,000	1,034,000	0.7182	742,603	
3	(16,000)	1,250,000	1,234,000	0.6086	751,050	
4	(216,000)	1,250,000	1,034,000	0.5158	533,326	
5	(16,000)	1,250,000	1,234,000	0.4371	539,393	
6	(216,000)	1,250,000	1,034,000	0.3704	383,026	
7	(16,000)	1,250,000	1,234,000	0.3139	387,383	
8	(216,000)	1,250,000	1,034,000	0.2660	275,083	
9	(16,000)	1,250,000	1,234,000	0.2255	278,213	
10	(16,000)	1,320,000	1,304,000	0.1911	249,148	_
				NPV	184,988	
	2 +	2 +	1)+	>	2	=
De	ecision: Accept	the offer.				

(ii) Decision to Accept the Offer or not, With 35% Taxation:

Year	Cash Outflow	Cash Saving	Deprecation	Add- Profit	ΡΑΤ	Net CF	PV Factory at 11.70%	PV	
Α	В	С	Ð	È	F	G	н	I.	
				(C-B-D)	(E x 65%)	(F + D)		(G x H)	
0	(5,000,000)					(5,000,000)	1.0000	(5,000,000)	
1	(16,000)	1,250,000	(493,000)	741,000	481,650	974,650	0.8953	872,560	1
2	(216,000)	1,250,000	(493,000)	541,000	351,650	844,650	0.8015	676,972	1⁄2
3	(16,000)	1,250,000	(493,000)	741,000	481,650	974,650	0.7175	699,341	1⁄2
4	(216,000)	1,250,000	(493,000)	541,000	351,650	844,650	0.6424	542,580	1⁄2
5	(16,000)	1,250,000	(493,000)	741,000	481,650	974,650	0.5751	560,509	1⁄2
6	(216,000)	1,250,000	(493,000)	541,000	351,650	844,650	0.5149	434,868	1⁄2
7	(16,000)	1,250,000	(493,000)	741,000	481,650	974,650	0.4609	449,238	1⁄2
8	(216,000)	1,250,000	(493,000)	541,000	351,650	844,650	0.4126	348,539	1⁄2
9	(16,000)	1,250,000	(493,000)	741,000	481,650	974,650	0.3694	360,056	1⁄2
10	(16,000)	1,320,000	(493,000)	811,000	527,150	1,020,150	0.3307	337,390	1
							NPV	282,054	1
			2 +		2 +	2 +	-	1 =	7
	Decision: Accept the offer.								

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MANAGEMENT ACCOUNTING - SEMESTER-4

Question No: 3

(b) (i) Sensitivity Analysis:

Sensitivity analysis is a method of analyzing the effect of change of any variable in an investment (capital expenditure) appraisal decision enabling to assess the responsiveness of project's NPV with the changes in the variables that are used to calculate the NPV.

(ii) Sensitivity of the Project:

Year	Discount Factor at 10%	PV of Cost	PV of Running Costs	PV of Revenue	PV of Net Revenue Flow
0	1.0000	(14,500)			(14,500)
1	0.9091	<u> </u>	(4,545)	10,909	6,364
2	0.8264	<u> </u>	(5,785)	13,223	7,438
		(14,500)	(10,331)	24,132	(698)
			1 +	1 +	2

The PV of cost can decrease by Rs.698 or PV of revenue can increase by Rs.698 before project breaks even.

Question No: 4

(a) Existing break-even in trips and amount:

Fixed Cost			Rupees			
Fixed cost			3,000,000			
Mandatory trips (3	60 x 4,500)		1,620,000			2
Total Fixed Cost			4,620,000			1
Break-even (Rs.) =	Fixed Cost CM%	=	4,620,000	=	11,550,000	2
Break-even (Trips) =	Fixed Cost	=	4,620,000	=	1,540	2

3,000

(b) Trips Need to be Completed to achieve profit target:

	Profit	=	CM per unit x	CM per unit x Nos. of trips – fixed cost					
OR	5,000,000	=	3,000 x Nos.	3,000 x Nos. of trips – 4,620,000					
OR	5,000,000	+	4,620,000	=	3,000 x Nos. of trips		1		
	9,620,000	÷	3,000	=	Nos. of trips				
	Nos. of trips	=	3,207				1		

CM per trip

	Rupees
Revenue	24,050,000
Less: Variable Cost	14,430,000
Contribution Margin	9,620,000
Less: Fixed Cost	4,620,000
Net operating income	5,000,000

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MANAGEMENT ACCOUNTING – SEMESTER-4

(c)	Breakeven in Percer	Itage and Amount Afte	r New System:			Marks
(0)	Dieakeven in reider	hage and Amount Arte	Rupees			
		Variable Cost per trip	o 4,500			
		Less : 3% saving	135			
		Variable Cost per trip	o 4,365			1
		Fixed Cost	4,620,000			
		Less: Saving	400,000			
			4,220,000			1
		CM Per trip =	7,500 – 4,365 3,135			
		Breakeven % =	-,		41.80%	1
		Breakeven (Rs.) =	Fixed Cost CM%	<u>1,220,000</u> 41.80%	10,095,694	1
		Breakeven (trips) =	Fixed Cost CM per trip = -4	$\frac{4,220,000}{3,135}$ =	1,346	

Question No: 5

(a)

The Home Company Statements of Financial Position

			Rupees		
Current Assets Aiternatives	30%	50%	70%		
Current assets (% of sales)	1,800,000	3,000,000	4,200,000	-	1½
Fixed assets	1,200,000	1,200,000	1,200,000		
Total assets	3,000,000	4,200,000	5,400,000		
Debt	1,800,000	2,520,000	3,240,000		
Equity	1,200,000	1,680,000	2,160,000		11⁄2
Total liabilities and equity	3,000,000	4,200,000	5,400,000	_	
	1 +	1 +	1	=	3

Presentation = $\frac{1}{2}$

Income Statement

			Rupees		
Current Assets Alternatives	30%	50%	70%		
Sales	6,000,000	6,000,000	6,000,000		
EBIT	900,000	900,000	900,000		
Interest 10%	180,000	252,000	324,000		1½
Earning before tax	720,000	648,000	576,000		
Тах	252,000	226,800	201,600		
Net Income	468,000	421,200	374,400		
ROE	39.00%	25.07%	17.33%		3
	1½ +	1½ +	1½	=	41⁄2

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Question No: 5

(b) (i) Reasons for purpose of preparing a cash budget:

There are several reasons for preparing a cash budget including the following:

- 1. To predict the cash balance over the period of the budget.
- 2. To arrange an appropriate overdraft facility with the bank.
- 3. To plan uses for any anticipated cash surpluses.
- 4. To plan the timing of expenditure.

Four (4) Reasons @ $\frac{1}{2}$ each = 2

(ii) & (iii)		Cash Budget or March to June 2013		_		
	0				upees	
Dessints	March 13	April 13	May 13	June 13	Total	
Receipts	400.000				400.000	
Capital	120,000	40,000	45 000	40.000	120,000	
Cash Sales	(C	13,000	15,000	18,000	46,000	
Total	120,000	13,000	15,000	18,000	166,000	
Poumonto						
Payments Van	90,000				90,000	
Machinery	30,000				30,000	
Van-Painting	\mathcal{O}	7,000			7,000	
Purchase-Opening Inventory		38,500			38,500	
Purchase-Replacement Inventory			3,900	4,500	8,400	
Petrol		800	800	800	2,400	
Motor Insurance		7,500			7,500	
Drawings		5,000	5,000	5,000	15,000	
\mathcal{O}	120,000	58,800	9,700	10,300	198,800	
Months surplus/ deficit		(45,800)	5,300	7,700		
Opening balance		5,000	5,000	5,000		
Net surplus/ (deficit)	<u> </u>	(40,800)	10,300	12,700		
Closing balance required	5,000	5,000	5,000	5,000		
Financing/ (repayment) during month	n 5,000	45,800	(5,300)	(7,700)	-	
Cumulative Financing	5,000	45,800	40,500	32,800		
Interest	41.67	381.67	337.50	273.33		

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Question No: 6

(a) Ranking of the Customers:

ang of the Customers:			Rupees
	Α	В	С
Gross margin	897,000	1,070,000	1,056,000
Less: Customer specific costs			
Sales visits	33,600	21,000	42,000
Ordering processing	57,000	60,800	91,200
Dispatch costs	105,000	112,000	168,000
Billing and collections	30,070	37,830	101,850
General administration cost	46,883	55,925	55,192
	272,553	287,555	458,242
Profit	624,447	782,445	597,758
Ranking	2	1	3

(b) The Standard Product Cost and Selling Price per Unit:

Direct Materials		Rupees
X :		10
Y		25
Direct labuor		15
Fixed overhead		30
Standard cost		80
Profit		20
Selling price		100
Budgeted profit	(10,000 x 20)	200,000
		Rupees
Actual profit for the pe	eriod	
Sales (110% x 100 x 9	9,500)	1,045,000
Direct materials		
X:	115,200	
Y:	225,600	
Direct labour	147,200	
Fixed overhead	290,000	
Standard cost		778,000

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MANAGEMENT ACCOUNTING - SEMESTER-4

Question No: 6

		Rupees	_	
Material Varian	ces:			
Material F	Price Variance = AQ x (AR - SI	R)		
X:	96,000 x (1.2-1)	19,200	А	
Y:	48,000 x (4.7-5)	(14,400)	F	
Material u	sage Variance = SR x (AQ - S	SQ)		
X:	1 x (96,000 - 95,000)	1,000	А	
Y:	5 x (48,000-47,500)	2,500	А	
Labour Varianc	es:			
Labour Ra	ate Variance = AH x (AR - SR	k)		
	46,000 x (3.2-3)	9,200	А	
Labour Eff	iciency Variance = SR x (AH - S	SFL)		
	3 x (46,000 – 47,500)	(4,500)	F	
Factory Overhe	ad Variance:			
Actual over	erhead	290,000		
Less: Bud	Less: Budgeted Overhead			
Overhead	Overhead Variance		F	
(
	THE END			

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