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LESS:FC	480000
PROFIT	120000

D) PRICE INCREASE TO 10% AND SALARY 30000

Particulars	CPU	TOTAL FOR 10000 UNITS
SALES	110	1100000
LESS: VC	50	500000
CONTRIBUTION	60	600000
LESS:FC		
SALARY		300000
OFFICE COST		160000
ADV COST		80000
PROFIT		60000

(PV RATIO=600000/1100000=54.54%)

BEP (UNITS)- FC/ CONT CPU- 540000/60- 9000 UNITS

2) BEP (RS.)- FC/P/V= 540000/54.545454%=990000

E)
FOR YEAR 2016

Particulars	CPU	TOTAL FOR 10000 UNITS
SALES	100	1280000
LESS: VC	50	640000
CONTRIBUTION	50	640000
LESS:FC		
SALARY		240000
OFFICE COST		160000
ADV COST		80000
PROFIT		160000

SALES REQUIRED TO EARN DESIRED PROFIT- FC+DP/PV RATIO
(480000 +160000)/54%- 1280000

Q.3B

STATEMENT OF CONTRIBUTION

LEVEL SALES	50%	60%	70%	80%	90%	100%
SP CUP	2	1.8	1.6	1.5	1.25	1.2
VC	1	1	1	1	1	1
CONTRIBUTION	1	0.8	0.6	0.5	0.25	0.2
TOTAL CONTRIBUTION	25000	24000	20000	20000	11250	10000

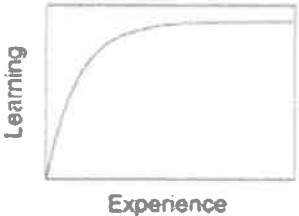
CONTRIBUTION IS MAX AT 50%

STATEMENT OF PROFITABILITY

PARTICULARS	50%	60%	70%	80%	90%	100%
TOTAL CONTRIBUTION	25000	24000	20000	20000	11250	10000
LESS:FC	20000	20000	20000	22000	23000	24000
PROFIT/LOSS	5000	4000	1000	(2000)	(11750)	(14000)

MAX PROFIT AT 50%

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Q.4.A	<p>1. Sales Value Variance- $(AQ*AR) - (SQ*SR)$</p> <table border="1" data-bbox="640 331 1339 412"> <tr> <td>SOUP</td> <td>$(440*36) - (600*30) - 2160$ A</td> </tr> <tr> <td>OIL</td> <td>1600 F</td> </tr> <tr> <td>CREAM</td> <td>20320 F</td> </tr> </table> <p>2.Sales Volume Variance- $(AQ-RSQ)*SQ$</p> <table border="1" data-bbox="640 510 1339 591"> <tr> <td>SOUP</td> <td>$(440-600)*30=4800$ A</td> </tr> <tr> <td>OIL</td> <td>1600 F</td> </tr> <tr> <td>CREAM</td> <td>25600 F</td> </tr> </table> <p>3.Sales Price Variance- $(AQ-SQ)*AR$</p> <table border="1" data-bbox="640 680 1339 797"> <tr> <td>SOUP</td> <td>$(36-30)440= 2640$ F</td> </tr> <tr> <td>OIL</td> <td>0</td> </tr> <tr> <td>CREAM</td> <td>5280</td> </tr> </table> <p>4. Sales Mix Variance- $(AQ- RSQ)*SR$</p> <table border="1" data-bbox="640 846 1339 927"> <tr> <td>SOUP</td> <td>$(440-660)*30= 6600$A</td> </tr> <tr> <td>OIL</td> <td>0</td> </tr> <tr> <td>CREAM</td> <td>17600</td> </tr> </table> <p>5. Sales Quantity Variance- $(RSQ-SQ)*SR$</p> <table border="1" data-bbox="640 999 1339 1079"> <tr> <td>SOUP</td> <td>$(660-600)*30= 1800$F</td> </tr> <tr> <td>OIL</td> <td>1600F</td> </tr> <tr> <td>CREAM</td> <td>8000F</td> </tr> </table> <p>REVISED SELLING QUANTITY $(SALES QTY*TOTAL QUT OF AQ)/TOTAL SDT QUTY$</p> <table border="1" data-bbox="640 1178 1339 1258"> <tr> <td>SOUP</td> <td>$(600*2200)/2000= 660$</td> </tr> <tr> <td>OIL</td> <td>440</td> </tr> <tr> <td>CREAM</td> <td>1100</td> </tr> </table>	SOUP	$(440*36) - (600*30) - 2160$ A	OIL	1600 F	CREAM	20320 F	SOUP	$(440-600)*30=4800$ A	OIL	1600 F	CREAM	25600 F	SOUP	$(36-30)440= 2640$ F	OIL	0	CREAM	5280	SOUP	$(440-660)*30= 6600$ A	OIL	0	CREAM	17600	SOUP	$(660-600)*30= 1800$ F	OIL	1600F	CREAM	8000F	SOUP	$(600*2200)/2000= 660$	OIL	440	CREAM	1100
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	SOUP	(36-30)440= 2640 F																																													
	OIL	0																																													
	CREAM	5281																																													
	6. Sales Mix Variance- (AQ- RSQ)*SR																																														
	SOUP	(440-660)*30= 6600A																																													
	OIL	0																																													
	CREAM	17600																																													
	7. Sales Quantity Variance- (RSQ-SQ)*SR																																														
	SOUP	(660-600)*30= 1800F																																													
	OIL	1600F																																													
	CREAM	8000F																																													
	REVISED SELLING QUANTITY (SALES QTY*TOTAL QUT OF AQ)/TOTAL SDT QUTY																																														
	SOUP	(600*2200)/2000= 660																																													
	OIL	440																																													
	CREAM	1100																																													
Q.4 B	<table border="1"> <thead> <tr> <th>Particulars</th> <th>Budget</th> <th>Actual</th> <th>VARAINCE</th> </tr> </thead> <tbody> <tr> <td>Sales</td> <td>200</td> <td>185</td> <td>15A</td> </tr> <tr> <td>LESS: Material and other variable cost</td> <td>120</td> <td>109</td> <td>11F</td> </tr> <tr> <td>Fixed cost</td> <td>30</td> <td>30</td> <td>0</td> </tr> <tr> <td>Sales promotion</td> <td>10</td> <td>7</td> <td>3F</td> </tr> <tr> <td>Operating profit</td> <td>40</td> <td>39</td> <td>1A</td> </tr> <tr> <td>Net working capital</td> <td>100</td> <td>103</td> <td>3F</td> </tr> <tr> <td>Fixed assets</td> <td>40</td> <td>37</td> <td>3A</td> </tr> <tr> <td>PROFITABILITY RATIO=(PROFIT/SALES)*100</td> <td>40*100/200= 20%</td> <td>21%</td> <td></td> </tr> <tr> <td>RETURN ON INVESTMENT</td> <td>28.75%</td> <td>27.85%</td> <td></td> </tr> <tr> <td>PROFIT/TOTA(L ASSET)*100</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Particulars	Budget	Actual	VARAINCE	Sales	200	185	15A	LESS: Material and other variable cost	120	109	11F	Fixed cost	30	30	0	Sales promotion	10	7	3F	Operating profit	40	39	1A	Net working capital	100	103	3F	Fixed assets	40	37	3A	PROFITABILITY RATIO=(PROFIT/SALES)*100	40*100/200= 20%	21%		RETURN ON INVESTMENT	28.75%	27.85%		PROFIT/TOTA(L ASSET)*100			
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Q.5 B	Product Life cycle costing- acquisition cost- operating cost- disposal cost—categories of product life cycle cost.- stages of product life cycle- introduction- growth- maturity- saturation- decline																																														
Q.5 1	<i>Benchmarking- Benchmarking is a process of measuring the performance of a company's products, services, or processes against those of another business considered to be the best in the industry, aka "best in class.- TYPES-(Competitive, Internal, functional, generic)BENEFITS-STEPS</i>																																														
Q.5 2	Objectives of cost Audit MEANING- Cost Audit represents the verification of cost accounts and check on the adherence to cost accounting plan. Cost Audit ascertain the accuracy of cost accounting records to ensure that they are in conformity with Cost Accounting principles, plans, procedures and objective																																														

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	<p>Prospective Objective- Constructive Objectives Making of accurate periodical financial statements Help in determining prices of finished products Determination accurate cost of jobs Help in planning, operations and stock control Distribution of overhead costs in a rational manner</p>		
Q.5 3	<p>Total Quality Management- meaning- A core definition of total quality management (TQM) describes a management approach to long-term success through customer satisfaction. In a TQM effort, all members of an organization participate in improving processes, products, services, and the culture in which they work.- features- process</p>		
Q.5 4	<table border="1"><tr><td><p>Advantages and Disadvantages Standard Costing</p><p>Advantages</p><ul style="list-style-type: none">• Valuable guidance to mgt• Helps to promote labor efficiency• Helps in valuation of closing inventory• Design incentive system for employees• Timely and effective control</td><td><p>Disadvantages</p><ul style="list-style-type: none">• Controversial materiality limits for variances.• Nonreporting of certain variances.• Low morale for some workers.</td></tr></table>	<p>Advantages and Disadvantages Standard Costing</p> <p>Advantages</p> <ul style="list-style-type: none">• Valuable guidance to mgt• Helps to promote labor efficiency• Helps in valuation of closing inventory• Design incentive system for employees• Timely and effective control	<p>Disadvantages</p> <ul style="list-style-type: none">• Controversial materiality limits for variances.• Nonreporting of certain variances.• Low morale for some workers.
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