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22ND COMPREHENSIVE EXAMINATION

CASE # 1

Alternative-II:

To hire out the surplus capacity of department "G", "R" and "S":

	Rupees
Incremental hire charges hiring revenue:	
Department G 600 hours x (Rs.2,500 – Rs.2,000	300,000 2
R 720 hours x (Rs.1,800 – Rs.1,500	216,000 2
S 1,200 hours x (Rs.1,600 – Rs.1,200) 480,000 2
Total	996,000
Add: Present return on capital employed (Rs.180 million x 10 ÷ 100) 18,000,000 1
Total income	18,996,000 1
Return on capital employed = $\frac{\text{Rs.18.996 million}}{\text{Rs.180 million}} \times 100 = 10.55\%$	2

Alternative-III:

To increase the installed capacity of the factory to 12,000 units by adding plant and machinery in Department "P" at a capital cost of Rs.40 million.

	Rupees
Incremental hire charges:	
Department R 160 hours x (Rs.1,800 – Rs.1,500)	48,000
S 800 hours x (Rs.1,600 – Rs.1,200)	320,000
Total	368,000
Add: Sales revenue on additional units (3,000 units x Rs.1,600)	4,800,000
Add: Return on capital employed (Rs.180 million x 10 ÷ 100)	18,000,000
Total income	23,168,000
Return on capital employed = x 100 = 10.53% Rs.220 million*	
Rs.220 million* (*Rs. 180 million + Rs. 40 million) Workings Notes:	
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Rs.220 million* (*Rs. 180 million + Rs. 40 million) Workings Notes: Calculation of Spare Capacity:	<u></u>
Rs.220 million* $(*Rs. 180 \text{ million} + Rs. 40 \text{ million})$ Workings Notes: Calculation of Spare Capacity: $\overline{\text{Dept. }^3\text{G}^8 = 2,400 - 75\% \text{ of } 2,400 \text{ i.e.,} 1,800 = 600 \text{ hours}}$	

Dept. 'G"	=	9,000	units/1,800 hours	=	5.00	units per hour	1/2
3Pn	=	9,000	units/2,400 hours	=	3.75	units per hour	1/2
³R ^u	=	9,000	units/1,680 hours	=	5.36	units per hour	1/2
3 S1	=	9,000	units/1,200 hours	=	7.50	units per hour	1/2

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22ND COMPREHENSIVE EXAMINATION

Surplus Hours available after Production of Additional 3,000 Units:

Department	Surplus Hours Available	Additional Units	Units Per Hour	Hours Utilised	Balance Hours Available
G	600	3,000	5.00	600	_
Р	_	3,000*	3.75	800	_
R	720	3,000	5.36	560	160
S	1,200	3.000	7.50	400	800

^{*}As a result of expansion

Analysis:

Return on investment is more with Alternative-II, hence it is suggested to hire out the surplus capacity of departments 'G", "R" and "S".

CASE # 2

(a) Addition to Retained Earnings as on June 30, 2013:

Sunshine Textile
Pro Forma Income Statement
for the year ended June 30, 2013

Rs. '000'

	2011-12	Forecast Basis	Pro Forma 2012-13	
Sales	72,000	1.15 x Sales	82,800	1
Operating costs	64,800	0.90 x Sales	74,520	1
Earnings before interest and taxes	7,200		8,280	1
Interest	920	0.10 x Debt	1,120	2
Earnings before taxes	6,280		7,160	1
Taxes (40%)	2,198		2,506	1
Net income	4,082		4,654	1
Dividends (45%)	1,837		2,094	1
Addition to retained earnings	2,245		2,560	1

Presentation = 1

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22ND COMPREHENSIVE EXAMINATION

(b)

Sunshine Textile Pro Forma Balance Sheet as of June 30, 2013

Rs. '000'

	2011-12	Forecast Basis (%) of Sales 2012-13	Additions	Pro Forma	Financing	Pro Forma after Financing	
Cash	2,160	3.00		2,484		2,484	
Accounts receivable	12,960	18.00		14,904		14,904	
Inventories	18,000	25.00		20,700		20,700	
Total current assets	33,120			38.088		38,088	
Fixed assets	25,200	35.00		28,980		28,980	
Total assets	58,320			67,068		67,068	
Accounts payable	8,640	12.00		9,936		9,936	
Accruals	5,760	8.00		6,624		6,624	
Notes payable	4,200			4,200	4,028	8,228	
Total current liabilities	18,600			20,760	•	24,788	
Term certificates	7,000			7,000		7,000	
Total debt	25,600			27,760		31,788	
Ordinary shares	7,000			7,000		7,000	
Retained earnings	25,720		2,560*	28,280		28,280	
Total liabilities and equity	53,320			63,040		67,068	
AFN				4,028			

^{*}From income Statement

AFN = Increase in assets – increase in current liabilities – increase in retained earnings 1

= Rs.3,748,000 - Rs.2,160,000 - Rs.2,560,000 = Rs.4,028,000 3

Presentation = 1

THE END