











SOP	– Ex	ample)					
Q_t, D_t and E_t are given and $S_1=200$								
K = 350								
t	S_{t}	Q_t	D_t	E_{l}	R,	S_{t+1}	O_i	
1	200.00	70.61	51.68	10	51.68	208.93	0.00	
2	208.93	412.75	127.85	8	127.85	350.00	135.83	
3	350.00	348.40	127.85	8	127.85	350.00	212.55	
4	350.00	142.29	65.27	8	65.27	350.00	69.02	
5	350.00	103.78	27.18	6	27.18	350.00	70.60	
6	350.00	45.00	203.99	6	203.99	185.01	0.00	
7	185.01	19.06	203.99	5	199.07	0.00	0.00	
8	0.08	14.27	179.47	5	9.27	0.00	0.00	
9	0.00	10.77	89.76	6	4.77	0.00	0.00	
10	0.00	8.69	0.00	8	0.00	0.69	0.00	
11	0.69	9.48	0.00	8	0.00	2.17	0.00	
12	$2.17_{R_t = D_t}$	18.19 if $S_t + Q_t - E_t \ge 1$	0.00	10	0.00	10.36	0.00	
$= S_i + Q_i - E_{\rho}$ otherwise $O_i = (S_i + Q_i - E_i - D_i) - K$ if positive = 0 otherwise								
$S_{r+1} \cong S_r + Q_r - E_r - R_r - O_p$ with R_r and O_r determined as above D Nagesh Kumar, IISc Reservoir Operation								



LP - Ex	kample			
		v	350	
,	0	к = D	350 F	
·	70.61	51.68	10	
2	412.75	127.85	8	
3	348.40	127.85	8	
4	142.29	65.27	8	
5	103.78*	27.18	6	
6	45.00	203.99	6	
7	19.06	203.99	5	
8	14.27	179.47	5	
9	10.77	89.76	6	
10	8.69	0.00	8	
11	9.48	0.00	8	
12	18.19	0.00	10	
Nagesh Kumar, IISc				Reservoir Operation

	LP - Solution								
	t	<i>S</i> ,	Q_t	D_t	R_t	E_t	S_{t+1}	O_t	
	1	10.36	70.61	51.68	51.68	10	19.29	0.00	
	2	19.29	412.75	127.85	127.85	8	296.19	0.00	
	3	296.19	348.40	127.85	127.85	8	350.00	158.74	
	4	350.00	142.29	65.27	65.27	8	350.00	69.02	
	5	350.00	103.78	27.18	27.18	6	350.00	70.60	
	6	350.00	45.00	203.99	39.00	6	350.00	0.00	
	7	350.00	19.06	203.99	108.87	5	255.19	0.00	
	8	255.19	14.27	179.47	179.47	5	84.99	0.00	
	9	84.99	10.77	89.76	89.76	6	0.00	0.00	
	10	0.00	8.69	0.00	0.00	8	0.69	0.00	
	11	0.69	9.48	0.00	0.00	8	2.17	0.00	
	12	2.17	18.19	0.00	0.00	10	10.36	0.00	
10	D Nagesh Kumar, IISc					Reservoir Operation			













