Assignment I

Problem 7.2

a) PERT Chart:

(0,3)	
7000	7
3 B(0,4) 4(3,7)	$ \begin{array}{c} \uparrow(2) \xrightarrow{f(5,6)} & \text{End} \\ \downarrow(7,8) & \text{End} \end{array} $
726	GH.
2,5)	2(5)2
Activity (ES, EF) time (LS, LF)	3
time (L3, LF)	

0

	Activity	start	Ende	Activity Time	staff Required	Slack
	at Note to	5	at Alexander	3	2	0
	В	S	2	4	4	3
	C	1 3	3	3	1	2
	<u> </u>		End	5	3	ව
	E	3	2	12 4	4 10.00	2
1		2	Final		3	2-

3/ack=LS-BS Activity Slack=0

	Week Activity	1	2	3	4	5	6	7	8	Staff	Required:
est museum to	A	2	2	2						-12	\
	В	4	4	4	- 4					-14	
	c	1	1	1						-91	
	D				3	3	3	3	3	70	
4 = 8-3	E.				1	1				71	

=5 F
Total 7.7784633=45

Forward Pass:

6)

9	Backward Pass:										
	Meek Activity	1	2	3	4	5	6	7	8	Staff	Required:
	A	2	2	م						12	
	В				4	4	4	4		-14	
	C			1	1	1				-1	
	D				3	3	3	3	3	-12	>-99
Δ= 7-2	Б	5.5 h		3		ı	1			-0	
= 5	t							3		-0	
C	Total	2	2	3	7	7	7	7	6	= 41	,
15	The factories on the second second second										
d)	If we move activity E in forward pars to a time										
	period 1	atel	, i.e	, a	ure	ulli	1 E	10	3	touting	at 3
	if to s	rane	A au	54	, w	0	an	70	utu	er red	mel a
	it E starts at 4, we can further reduce a staff, as 4 staff from B will be free, from										
2	which	,3	can	be	u	sed	. fo	u,	C (and 1	can be
	uhich, 3 can be used for F and I can be used for E.										
			A Service					-			almada.
	The +	otal	sta	eff	neg	whe	al	in	th	is cas	e would
	become	7	•					Page			and the state of
		•								. 0	
42	=) steff	ing	pro	file.		7	sta	ft	rec	mired	
43											
		P. Jane				THE REAL PROPERTY.				- Paris po	Tarrie 18 mg
	the same and the s										
									2 900	Dr. A month	
			7						May	No. of Street	
										L. Milani	1965

-

Problem 7.4 a) BAC = not per mile x total miles = 30,000 x 20 = \$600,000 Total time = 8 weeks Cost per week = 600,000 = \$75,000 b) PV/BCWS = \$75,000@2 = \$150,000 O) EN/BCWP = \$30,000@4 = \$120,000 a) AC/ACWP = \$ 100,000 e) CV = BCWP - ACWP= \$120,000 - \$100,000 = \$20,000 (+ve) budget and project is under budget) f) SY = BCWP - BCWS = \$ 120,000 - \$150,000 =-\$ 30,000 (-ve) -> Project & Company are behind echedule. g) $CVI = BCWP = $120,000 = 1.2 > 1 \rightarrow Barnings$ ACWP \$100,000 are more than

amount spent. b SVI = BCWP = \$ 120,000 = 0.8 < 1 BCWS \$150,000 Less work completed than planned. 9) EAC = AC + (BAC -EY) = \$580,000 ETC = BAC - EV = \$430,000 VAC = BAC - BAC = \$20,000 - +ve - Budget under run (company under budget)