	1	Sessiono	u'I	20BCE196
				7
	0-2.	yeur	Projectm	Project N
		1	77000	38000
3		2	79000	22000
		3	32000	3 8000
		4	37000	10600
		/	<u> </u>	
			m's Investment	
		Project,	N needs an inv	estment -> 60,000/25
		Cost of	Oupitul !-8 %	
			(
		Project	- M)
		7		, ^r
-		Jeur	cash Inflow	OCF.
•	٠			· · · · · · · · · · · · · · · · · · ·
1	,	2	11000	33000
	•	3	38000	49000
		S	19000	68000
9		PRIO	2 4001	
		1 1317 13	s 3 yeurs.	
•		Ovenes		
		project		_
		geurs	cest Inflou	CCL
		1	22000	2 2000
		2	32000	54000
•		3	28000	72000
		4	37000	109000
-		5	2,0000	334000

2 PBP is 5 years for DPBP .. Project m! year cash PV CCF in Alow 10185.19 77000 10185,19 32967.91 93153.10 38000 2 15565.67 58718-77 3 79000 DPBP is 3 years. For project N:cash PU. CCI yeur inflow 26370.37 22000 26370.37 47429.07 32000 27058,70 2 11328.47 58757.52 78000 37000 32366.75 9.2284.29 6363.04 30000 97987.37 ppBP is in 5th year For project m. NPV -70000+10185,19/10,08) + 32967,91 (1.08)27

•							
3) .			× 8			
		- 2					
7		=-70000+9076,11+28175,44+19045,38					
		= 5996.93					
		<u></u>	· ·				
		For Project N.	/				
	- /						
•		NPV = 139 822 RS					

		Since it is positive it is profitable.					
		Project N Should be selected.					
		Jeren Server					
			i i				
9	-2.	Strete of prob.	Return on	Return on			
		Nuture	Asset 7(%)	Asset 2 C%			
				1,000,000			
		1 0.10	6	0			
		2 . 0.30	10	8			
		3 6.50	25	18			
		4 0,10	20	26			
	,	4"	-				
			1 - 1 1 -				
		coluet is the Stundard devication for					
		Asset-2 PAsset-8 8					
		Asset 1: - Expected Return					
•		$= (0.3) \times (10) + (0.5 \times 15) + (0.2 \times 15)$					
4		= 12.50/0					
		variance = co.3 × (10-18.5)2) + co.5 × cb-1855)+					
		CO.2 × CID-12.5)3 = 4.375 %					
				A STATE OF THE STA			

Expectd Return = (0.3x18) + (6.5x15) (0.2x15) = 15.3% Variance=(0.3×(18-15.332)+(0.5×(15-15.332) + CO. 2 × C15-15.3323 1 3.2575% Std. devication for Asset 1 = 14.375% for Asset 2= V3.2575 % = 1.80/ b) Co-vuriance between asset 2 & 2 Co-variance = E[CRi-ECRi) x (Rj-E(Rj)) x P(Ri, Ri) = ((20-12.5)×(18-15.3)×0.3)+ [C25-12.5) x(2.51-21) [(25-185)×(15-15:30×0.2) = -1.3725. Co-efficient of correlation blu the vetura assest 1 & 2 = -1.3725 2.09% X 3.8% = -0.413

a) The negative co-Efficient indicates that the returns on the asset 2 22 move in the opposite directions. The selection of asset 2 2 2 Would depend on the investor's risk appetite and investment objectives.

Sessional'2 20BC E198 Equity beta! - 7.7. Risk-free rate: 8% Market risk premium: 7%, debt aquity=1:27

Pre tox-cost of debt: 20%, tux rate: 30% COACCE 2) Cost of Equity = 0.08 + 1.1 × 0.67 After Tax Cost of debt = Pre tux cost of debt X C1 - tux rute) = 0.2 × C1-0.3) CWeight of debt x After-Tase cost of des = (2/3 × 0.155)+ (2/3 × 0.07) ACME's weighted any cost of capital Detuins for firm A & B

Particuleurs 13 ltd A Ud. 24000 15000 vuriable cost J4000 7500 Contribution 7500 30000 Fixed Cost 3500 3500 Earning before Int plux 4000 6500 Interest 2500 1500 Profit before ter 4000 2500 For firm A: Contribution = 15,000, EBIT = 4,000, PBT=1500 Contribution margin = Contribution - var. cost Vuz cost = 15000 - (0.6 * 15,000) - 6000 Sales = Contribution 10.6 = 25,000 sperating levorage = (Sales - Var. 10st)/EBT? = (25,000 - 6000/4000) For fim B!-Contribution = 15,000 (EBJT = 1,500, PBT=150) Var. cost= 50 % sales = 7500

Sales = contribution/0.5 = 30,000 operating levereige=(30-000)-C75003/1500 For fim A: Net income= PBT * ()-tux rate)=1050 EPS= Net income/no. of Shires=1.05 Financial leveroge = 0.048/0,1 For firm 3:-Net in come = 1050, EPS = 0.525 EBIT changes by 10%, changes in EPS =C1.2 +0.525-0.525)/0.525 Financial leverage = 0.048/0.1. combined leverage (A)=4.75 pous=228 combined leverage (B)=15 * 0.48=7.2 Firm is hus higher op leverage financial severage & combined severage than firm A indicates high risk 9-3. from the given informertion. Current assets: 1> Stock of raw materials = (2(12) * 9,00,000 = 75,000 RS. 2> Stoge at Anished goods = (2/2)* (36,00,000 *0.75) = 7,50,000 PJ 3) pebtors = (2/2) #36,60,000 = 6,00,000 Ps. 4) Cash Balance = RS 1,00,000 Total Current assets: -75K+75DK+600K+100K = 14,25,000 Current liabilities: -1> creditors = (2/12) + 9,00,000 = 1,50,000 Rs 2> wages = RS. 7,20,000/12= RS.60,000 3) manufucturing expenses outstanding = 6,667 Rs 5> Sales promotion expenses paid quartly = 30,000 Rs 4) Administrative expenses outstanding = 20,000 Rs Total aurent liablities = 2,66,667 Rs Working Capital Requirement = Total current
Assets - Total Current liabilities = 14,25,000 - 2,66,66t

Sakety margin = 20% 1, the final working Capital requirement for the company will be: Working Capital requirement with safety margin = working Capital Requirement * (2+ Safety margin) the xyz co, with 20 % safety
margin is Ph. 13,90,000