(22) al long 5000 y 5.20 = 26,000 5000 X5, 80 = 29,000 Profib = 8000 b/should 37500x1.60 = 60,000 37500x1.40 = 52,500 Profib = 7500 cheshorb 40x 4500 = 300,000 40 x 7800 = 312,000 loss = 12,000 d/ long 5x3x15000 = 225,000 5×3×13500 = 202,500 108 = 22,500

-> K = Fo the strike of the European Put -> Sr the spot price at maturity

Portfolia:

· Long one forward (payoff ST-Fo)

· Long one European put with

Strike K = Fo (payoff max 1 K-ST, 03)

So, at T

TT = ST-Fo + max & Fo-St, 03

So. TT = (ST-FO) + (FO-ST) if ST < FO

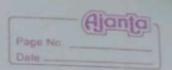
and

T = (S\_-F\_0) + 0 if S\_7 > F\_0

that is exactly payoff of European Call with strike K = Fo

TTT = max & ST-Fo, 03

At maturity the two - instrument portfolio have same payoff as the European call with that strike and maturity.



## 1. Short Forward Contract

Profit or toss: (Forward Price - Spot Price)X

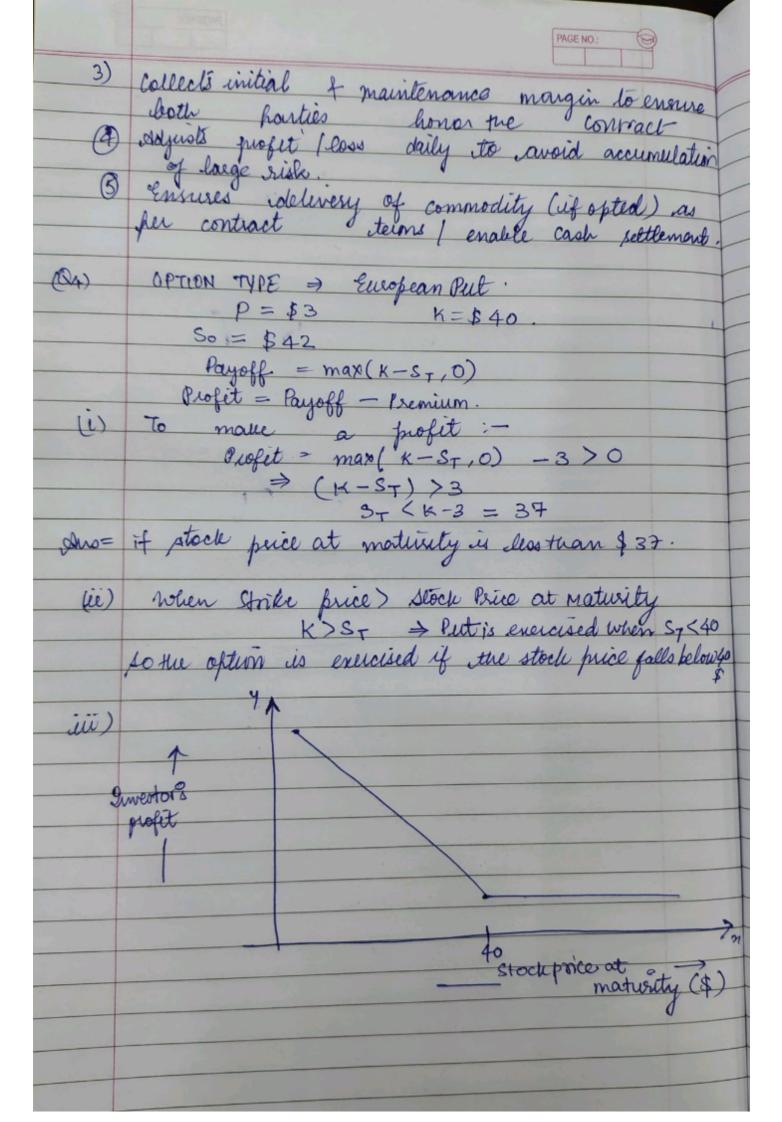
e =	\$ 5020	per	ounce
	e =	e = \$ 2050	e = \$ 2050 per

_			
	Spot Price (\$)	Profit or toss (s)	
	1400	6,50,000	
-	1500	5,50,000	
	1560	4,90,000	
	1600	4,50,000	
213	1800	2,50,000	
	2050	0	<u>. 40</u>
	2200	-1,50,000	
	2300	1-250,000	
	2400	-350,000	
			and the

(2) morang blod Q3 (A) FUTURE CONTRACT 1) Agricment to sell/buy at a CONTRACT. future date 2 Price: agreed to day, settled Agreement for immediate purchase sale. 3 Settlement: on contract's Based on current in fature Maturity date smearace purality of standardized terms (quantity) austomised blu buyer appality) & seller. market price. & morediale Curally (B) How does a fultires contract would on commodity exchange)

Consider a buyer 4 seller agree to a standardised

contract via commodify exchange (what futures contrad) The contract specifies 1) Quantity 2) Quality grade.
3) Delevery dole (say after 3 months) weemodest mode = 9 from 0) 4) Fultures price ( = x | quintal) 3 Both parties deposit margin with the exchange to reduce default risk. The position is marked to market daily & marginis adjusted accordingly. Bouties square of their positions 4 settle profit positions. (C) ROLE OF COMMODIFY EXCHANGE: O contracts are pre- defined in terms of D Handling by the clearing house which acts as the countries to both buyer & seller.



Sonali: 91,5	Assn 2.2 81,5,6
Harshita: \$3,4	(g 3, 2p
Himanshii: 92,6	<b>Q</b> 2