Podit Loss = (Forward Min - spot Frice) a 1000 (d six = 1000

Shot Mice (4)	pgi+(loss (\$)
1400	(2050-1400) ×1000 = 650,000
1500	5,50,000
1560	490,000
1600 / 20 10000	, 4so,000°
1800	1250,000
2050	0
2200	-(50,000
2300	-280,000
2400	
	1 -350,000
+ve = justit	-ve = logs

Future ys spot contract A shot contract is for immediate buying! selling of commodity. A future contract is an aggrerment to buy/sell a commodity at a predomin preditormined.

price on a busine date.

Move future works on enchange of commandity. Isaded on exchanges like CHE, NY HEX, etc.

· standarized contracts · daily price settlement a margin requienment

. profit I los settled daily

Role of commodity exchange

. At as an intermediary to ensure

· y varantees performance via clarity house, reduce counterparty risk let sign = 5000 brustels. Strike price = \$5.2 close " = \$5.8.

Prysit = (5.8-5.2)5000 = \$3000

(6) position -short,

lot size = 37500 founds Strike pice = \$1.6/ pound close " = \$1.4/ pound.

popit = 0.2x37560

(c) Position - short

contract = 425 per index point contract = 400 initial price = 7500 final price = 7800.

loss = 40x7500 = \$300,000

(d) position - long

contract - 5 metric termes

no of contract - 3

initial price - 15,000 per tomme

final price - 15,800 "

Podit = 12000

Q.4 premium paid: \$3 stock pair = \$42 (s) strike mid = juo (K) Poofit = max(K- ST,0) - primium. (a) to make profit max(k-57,0)>3 => K-57>3 = 157 < 48 37 the investor makes a profit when stock price at maturity is less than \$37. the option will be exacised when stock is (6) less than \$40 (c) contractor to proceed the second Os Portíclio: · long borward centrait on asset · long european pet option on asset strike price = bornand price ... same as paward. forward price = F ; Asset price at = ST Terminal value of portfolio, maturity

forward payoff: ST-F

put payoff: max (F-ST,0) Total value: (57-F) + max (FLS7,0)

now consider two cases:

to a West proposed to an italy

· Care I : ST >F - put expires worthless - value = ST - F

· Case I: ST CF - put exprised 1 -1 value = 57 - Fl + (F-52) =0

```
So, the termined value is,
    max (8+-F,0)
 call mice = tro
```

fut mice = \$5 strock mice = \$130 strike price = \$120 maturity = 1 year.

risk pu sate:

(6.6)

7

C-6-2- Kr. . 20-5=130-1202-8.

7 = 4.25-1. per am annum.