Sonyan 17063504105 Pjain

By-5

御

Given dotal amound of investmend = 7 80,000

Investment in stock (3) and Bond (B)

Stock (3) 157. Standard Deviation (5)

Bond (B) 7.57. 07.

Given, Pandfolio nedon (R) = 127.

Now, led (1-x) be the amound investment in nink-free bond and next x amound in stock

 $4 \quad X \times (.15) + (1-x) \times (0.075) = 0.12$   $0.15 \times + 0.075 - 0.075 \times = 0.12 - 0.075$   $0.15 \times - 0.075 \times = 0.12 - 0.075$ 

0.075x = 0.045

N = 0.045

2 - 0.6

- ×=607.

Hence, 407. Of the amound should be invested in Mrok - free bond and 60% mood be invested in Block.

## Songem 170 6350 4105 Step



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= Investment amound in bonds = 40% of 80,000 = 7 32,000

= In vestmend amound in wheres = 60 M. of 50,000 = 7 Y8,000

Now, RP = Rp + (Rm - R/) X OF

Where, Rp - Redonn on pontfolio R/ = niok free nedum Rm = noturn on plock om = nish in about

> 0.12 = 0.075 + (0.15 - 0.075) × GP 6.05

0.12 - 0.075 = 0.075 × 5P

0.045 × 0.05 = GP

GP = 0.03

OP = 3%

Hence the nink involved in the pont/olio = 3%