NAME: SHAH RAZA
REGISTRITON NO:- 18 PWCSE 1658
SECTION = B
ASSIGNMENT NO: 05

=) F = \$ 49,933.75

Market resale Price:

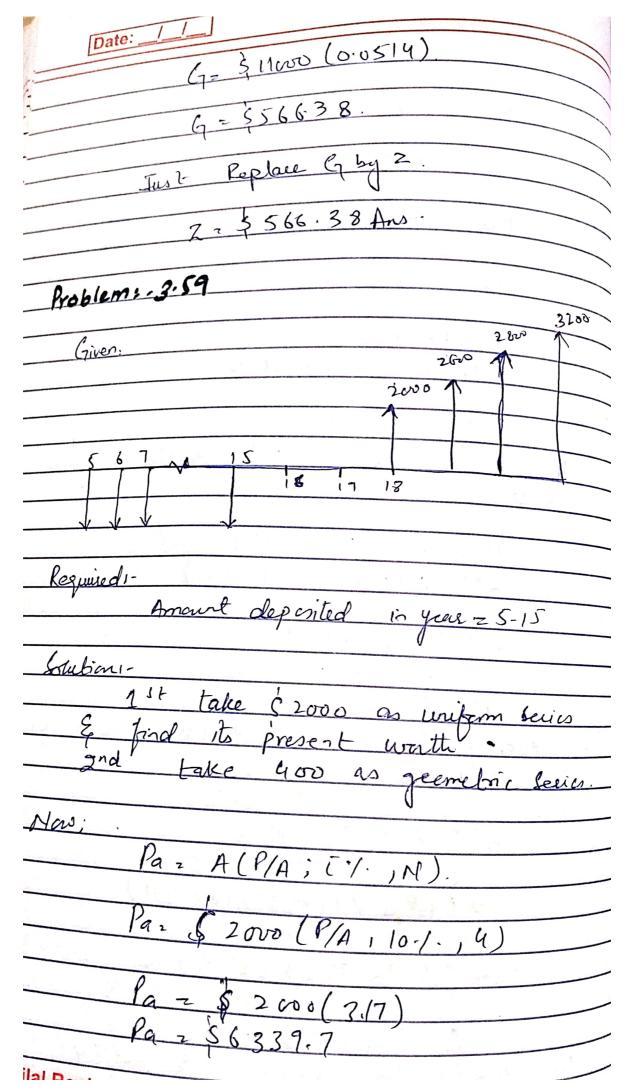
S= P-F.

S=174.900.63-49,933.75 S=\$124,966.875 Ans.

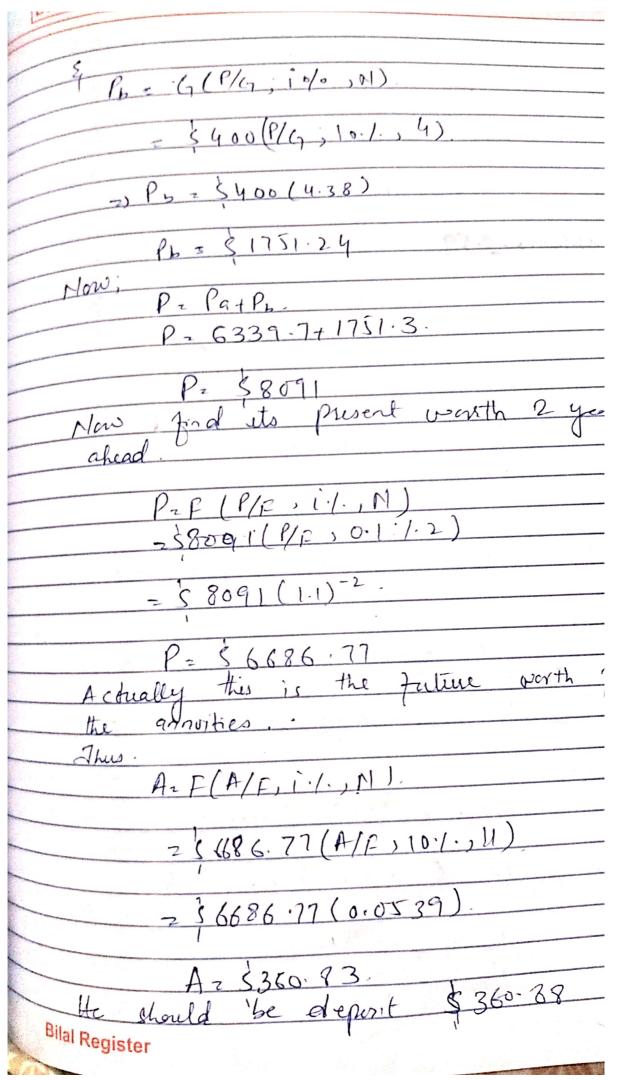
Bilal Register

Date:
Pa = 500 (6.14).
500(6.14)
Pa=\$3070.
Now For \$100:
P= \$100 (P(G,i:1.,N)
$\frac{1}{2} \sum_{i=1}^{N} \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \right)^{N} = \frac{1}{2} \left($
Pb = \$ 100 \$ (1+i) N -iN-13
$\frac{251005(1.1)^{10}-0.1\times10-13}{(D.1)^{2}(1.1)^{10}}$
( (D·1) - (1·1) 10
= \$100 \$22.93
\$ 2 \$ 2290
32 722
zy Present worth = Pa+Pp.
2) P = \$ 3070 + \$ 2290.
=> P=\$5360.
Now to find the Annutues we have.
A = P(A/P, iv., N).
= \$ 5860 \ (1.1)-1
= 255360(0.162)

Problem: 3.51
Giva'
Present worth = P= \$ 10,000
interest vate = i= 10./.
Number of Periods = N= Loyeass.
Requied:
value of 2 =?
U .
Solution 1-
8000
As the varayment starts at the
end of 3 years. Thus we will first find the future worth of
first fried the future worth of
year 7
F = P(F/P, (1/, 1)
= \$10,000·(1+0·1)!
~ 10,000(1.1)
F = \$11.000
Now consider Fas a present
14 0 4
Worth for the rost of years.
=) 9t is as sethemetic grometric
=) 9t is an arethemetic geometric
G=P(4/P,1/,N)=P; 12(1+i)N}
(72 f) (/ f / f / f / f / f / f / f / f / f /
(1-Ni-m(i+1))
Have N2 N-1= 9 become the ceres
starts at year 3.
Thus,
G= 51100 } (0.1) 261.1) 9
(1.1)9-0*1×9-1)
Bilal Register

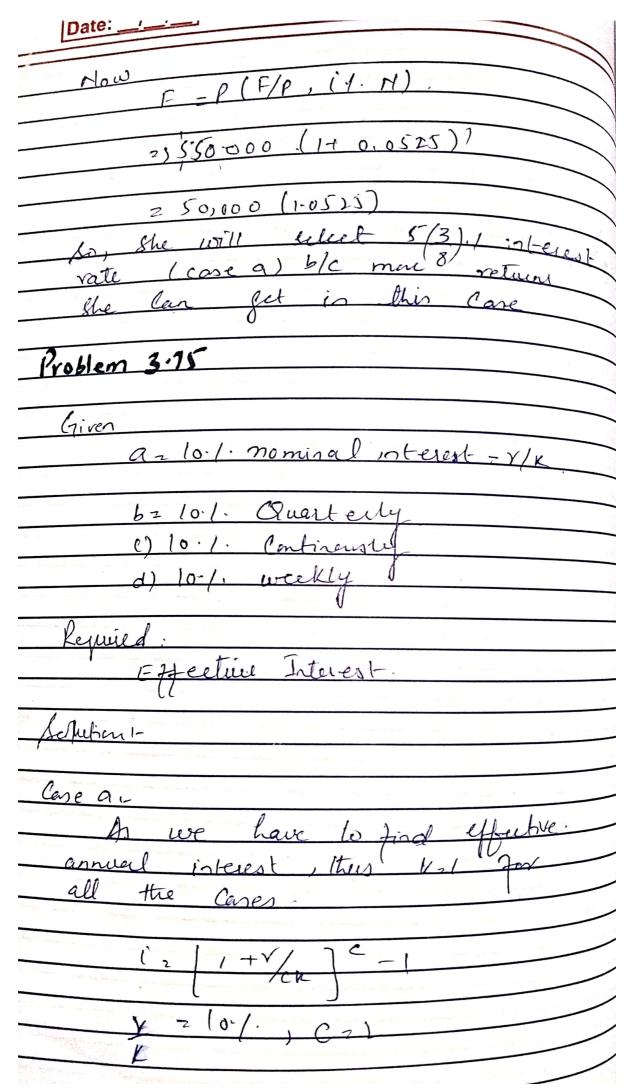


Scanned with CamScanner



from 5 to 15 each year in order
from 5 to 15 each year in older to withdraw the guin amount.
P. (1) 2 .74
Given:
Present worth = P = S Suppose
No of Payments Periods = 1-4
Mo of Payments Periods = 1 - K Mumber of Periods per payment.
a) (=1 (annually) =) x = 5 3 .1. b) (=4 (Quarterly) -3 x = 5 3 .1. c) c=d ((antiently) =) x = 5 4 .1.  Parised.
b) ( 4 (Quarterly) 3 x z 5) 8
2) C2 of (Continuity) 2) V = 51
Requised:  Highest Return = ?
Highest Petuin = >
Solution.
Page (a):
Care (a) As we Know that
iz [+ Y] -1
(CK)
L = 1 + 5,375 1. ] 1
[X]
3) / [.
2) [= [1+0,05375]-1
Haw: 170105375 Annually
14000
Pap(F/p, i.l., N)

F= 50,000 (1+i)N
F2 50, 000 (1.01375)
F2\$5)687,5.
Casebs - I 20 16
$\frac{\text{Casebs}}{\left(\frac{1}{C} \times \frac{1}{C} \times$
2 [ 1 + 0.0125] 7 -1.
i= 0.01)
Nav = 0/21
F= P(P/P, i.1., N).
F= \$5000 (1+0.0125)
F=350,625
(ase c)
As we know that
i2e1/k-1
IC 12 Till
i = e (5.1251/-)
i = e 51125.11.
0.05125
(- 6 0311)
121.0525-1
Bilal Register (2 6:0.5 LS
"'cylster



12 (1.05)2-1=0.10
12 (1.05)2-1=0.1025
1=10.25./.
Case hi
1= 1+ Y ] C-1
CK
$\gamma = 10$ /. $C = 4$
<u> </u>
12 [1+0.174]
12 [1+0.174-1
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
12(1.025)4-1-20.1038.
1 = 70,38./
Case C:
1- eY/K -1
12 e0-1-1
120.1051
(2)0.51./
Coned 1.
( = 1+ V 7 e-1; V/x 2/5:/1) (21)
CK 1/x 2(6.7.1) C
1) C
(2 [1+ 0.1752 ]

F2 \$ 7500 (1.808)
[F= \$ 13565.45] Ans.
Amount to be lefaid = \$13565.4
TO THE THE THE TANK THE TOTAL