

A Constituent Institution of Manipal University

Nominal & Effective interest Pale

19.

$$|4| = (1 + 0.06)^3 - 1 = 1.51$$
, or 0.015075.

Deposit = \$500 for 10 yr Compounding period = 10.1. compounded quarterly 0.10. 10 guarterly

0.10. 2 pt 2.25 12.25

12 months

or lyear P.P -> monthly C.P + quantity. C.PYP.P. inf: (1+0.10)3-1 = 0.008286. F = A [F/A i ext . n] = 540 [C1+0.008256)20-1] = 101,890.32. 15000 [= 121. comp. monthly. i= \(= \frac{0.12}{12} \) or left = (1+0.12) -1 = 1.1. A = 1500 (AP. 11. 48) = 395. Pro = 395 (P/A, 11,28) = 9605. OY F48 = 395 (F/A, 11, 48) = P20 = F48 (P/F, 1.1., 28) When the preparate are on an annual Lans.

Bid 1: 9:1. per year compounded quantity.

P.P. > 12 months, C.P. duantedy,

P.P. > C.P

iff = (1+0.09) -1=9.3:1.

Bid 2: 3:1. per quarter, comp. quarterly

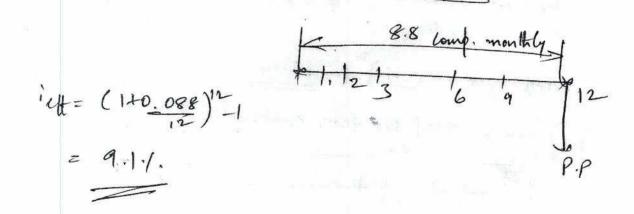
Bid 2: 31. per quarter, comp. quarterly

(ett = (1+0.03)^4-1

= 12.5.1.

P.P

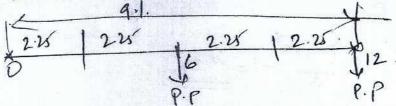
Bid 3: 8.8.1. per year, compounded monthly





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When payments are on semiaurual busis. 29. i) Bid 1: 9.1. per year compounded quarterly.



C.P - quantily

ii) Bid 2: 31, per quarter, comp. quarterly

Pep -> Semiannual P.P > C.P

C.P > quantily

iii) Bid 3: 8.8.1. per year, compounded monthly

P.P -> semiannual P.P c.P -> monthly P.P > C.P

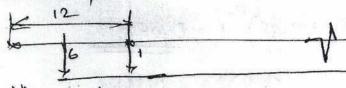


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if int. is 12% comp. semiannually.

P.P -> 6000 every brushly

CP > semiannually



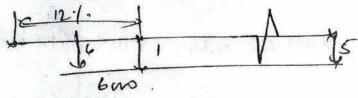
1= x or (1+x) 1-1

$$-\frac{0.12}{2} \cdot = 61$$

F = 600 (F/A, 61, 10) = 79086

ii) if int. is 12% compounded annually

C.P > 12 months.



itt= (1+ 0.12) 1= 0.0583

$$F = 6000 \left((1+0.0583)^{10} - 1^{-1} \right)$$

= 78456. iii) if int. is 12% compounded quantity = 12% comp quantity iet = (1+ 0.12)2+ = 6.09.1.

