a. Let Vt be the NAV of fund at time t.

Vtt = Vt (1+ Rt+1) - (6+f) Vt (1+ Rt+1)

= Vt (1-8-f)(1+ Rtel)

b. Vt+1 = Vo (1-6-f) t+1 T (1+ Rx+1)

E(Rt) = Rf + B(Mm - Rf) + Et.

devidend at tel . de Vt (11 ktel) · S = Vtel · S

O is at time t the value of payout ? to investor of future n period is $P_{t} = E\left[\sum_{i=1}^{2} \frac{V_{tri} \delta}{1-\delta \cdot f} \frac{1}{(1+k)^{i}}\right] = E\left[\sum_{i=\delta}^{8} \frac{\delta}{1+\delta \cdot f} \frac{V_{tri}}{1+k}\right] = E\left[\sum_{i=\delta}^{8} \frac{V_{tri}}{1+k}\right] = E\left[\sum_{i=\delta}^{8} \frac{V_{tri}}{1+k}\right]$

for Ex (1+ Re+1) = 1

 $P_{t} = E(\frac{\delta}{1-\delta+1}\sum_{i=1}^{n}V_{t}(1-\delta-1)^{i}) = E(\delta V_{t}\sum_{i=0}^{n-1}(1-\delta+1)^{i}) = \delta V_{t}\cdot\frac{1-(1+\delta+1)^{n}}{1-(1+\delta+1)} = \delta V_{1}\frac{1-(1+\delta+1)^{n}}{\delta+1}$

if n->00, Pt = &Vt

B similarly for the value of management fee f of future n period is $f_{t} = E\left(\sum_{i=1}^{2} \frac{V_{t+i} f}{1-\delta - f} \frac{1}{(1+k)^{i}}\right) = f V_{t} \frac{1-(1-\delta - f)^{n}}{\delta + f}$ if $n \to \infty$ $F_{t} = \frac{f V_{t}}{\delta + f}$

O Therefore, it has nothing to do with systematic or idiosyncratic risk, if $E_t(HR_{t+1})/(HR)=1$ always holds.

C .

discount = $\frac{Vt - Vt \frac{\delta}{\delta + f}}{Vt} = \left| -\frac{\delta}{\delta + f} \right| = \frac{1}{\delta + f} = \frac{\alpha + 4}{2.277 + 0.44} = \frac{16.24}{10.27}$

d.

No, we can't. In our analysis here, we have an important assumption that $\frac{E_t(1+R_{t+1})}{1+R}=1$, which is not always true in real world.

However, it still provides some explanation in qunatitative way. The explanation that discount rate is dorminated by dividend and manage fee is somehow reasonable

explanation	comes from	iar to rea m (AfM,	simple but	efficient.		
1	,	,		"		