

28. Solution: D

Year  $(t + 1)$  principal repaid  $= v^{n-t}$

Year  $t$  interest repaid  $= i \cdot a_{\overline{n-t}|} = 1 - v^{n-t+1}$

Total  $= 1 - v^{n-t+1} + v^{n-t} = 1 - v^{n-t}(v - 1) = 1 - v^{n-t}(-(1 - v)) = 1 + v^{n-t}$  (d)