a) Firstly, we should calculate cash flow per year.

CFO $=-24-3=-\$ 27$ million
CF1 $=65 *(1-0.7) *(1-0.4)=\$ 11.7$ million
CF2 $=65^{*}(1-0.7) *(1-0.4)=\$ 11.7$ million
CF3 $=65 \star(1-0.7) \star(1-0.4)+3+12=\$ 26.7$ million


NPV $=-27+11.7 / 1.11+11.7 / 1.11^{\wedge} 2+26.7 / 1.11^{\wedge} 3=\$ 12.56$ million
APV = Unlevered NPV of Free Cash Flows and assumed Terminal Value + NPV of Interest Tax Shield and assumed Terminal Value

The discount rate used in the first part is the return on assets or return on equity if unlevered. The discount rate used in the second part is the cost of debt financing by period.
EBIT - Taxes on EBIT = Net Operating Profit After Tax (NOPAT) + Non cash items in
EBIT - Working Capital changes - Capital Expenditures and Other Operating Investments =Free Cash Flows

