1- Find the current in 15 Ω resistor in Fig 1. Using:
   (i) superposition theorem [5 Marks]
   (ii) Thevenin's theorem [5 Marks]
   (iii) Mesh current theorem [5 Marks]

2- In Fig. 2 if the initial value of V1= -5 and initial value of V2= -3 and a current of $600e^{-5t}$ μA is followed in the circuit for $t \geq 0$. Calculate:
   (i) voltage in each capacitor terminal at time $t$ [5 Marks]
   (ii) the energy stored in each capacitor at time equal infinity [5 Marks]
   (iii) the total capacitance [5 Marks]