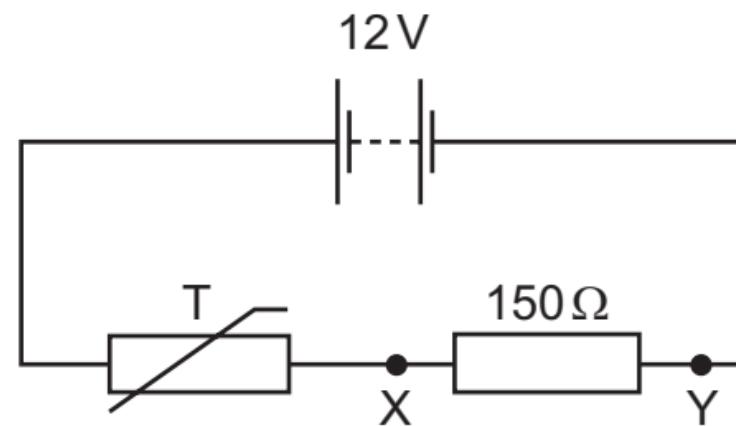


- 35 In a fire alarm system, a thermistor T has a resistance of  $2000\Omega$  at room temperature. Its resistance decreases as the temperature increases. The alarm is triggered when the potential difference between X and Y reaches 4.5V.



What is the resistance of the thermistor when the alarm is triggered?

- A  $90\Omega$       B  $150\Omega$       C  $250\Omega$       D  $1300\Omega$

- 36 A network of electrical components is connected across a battery of negligible internal resistance.