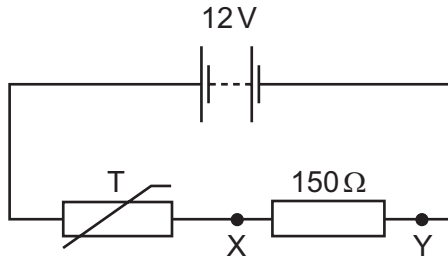


- 35** In a fire alarm system, a thermistor T has a resistance of $2000\ \Omega$ at room temperature. Its resistance decreases as the temperature increases. The alarm is triggered when the potential difference between X and Y reaches 4.5 V .



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