

- 19** Thermometers  $M_1$  and  $M_2$  are placed inside an evacuated enclosure with walls maintained at temperature  $T$ . The thermometers are identical except that the bulb of  $M_1$  is blackened.

Which of the following equations is true if  $T_1$  and  $T_2$  are the temperatures indicated by  $M_1$  and  $M_2$  respectively after thermal equilibrium has been established?

- A**  $T_1 > T_2 > T$       **B**  $T_1 = T_2 = T$       **C**  $T_2 > T_1 = T$       **D**  $T_1 > T_2 = T$