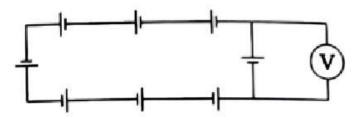
Q 08 In the given circuit, each battery is 5 V and has an internal resistance of 0.2 Ω . The reading in the ideal voltmeter V is V. (1997)



Sol. Let E=5 V and r=0.2 Ω . Apply Kirchhoff's loop law, 8E-8ir=0, to get $i=\frac{E}{r}=25$ A. The voltmeter reads V=E-ir=0 V.

Ans. zero 🖸