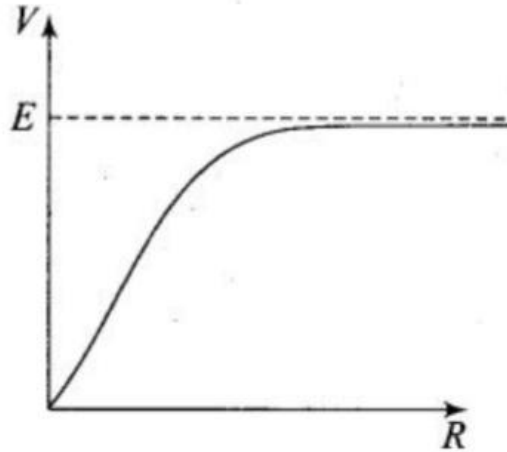


Q. 02 1. A cell of emf E and internal resistance r is connected across an external resistance R . Plot a graph showing the variation of potential difference across R , versus R .

Solution:

The graphical representation of voltage across R and the resistance R is as shown.



This graph shows that potential difference increases with resistance after a certain value, it becomes constant equal to E .