Q.7. A liner potentiometer of total variable length of 10cm, is to be designed for a resolution of  $1.0 \Omega$ /m. The maximum permissible non-linearity error value is desired as 2%. Consider the resistance of the voltage measuring device as  $10K\Omega$ . Compute the maximum and minimum

[5 Marks]

value of the resistances with its corresponding error and resolution values.