(1.)

$$
\begin{array}{r}
\text { EYES } \\
\text { PERIFERAIN.S } \\
\text { (SENSORY) }
\end{array} \rightarrow \text { CNS } \begin{array}{r}
\text { THALAMUS } \rightarrow \text { CEREBRUM } \rightarrow \\
\text { CEREBELlUM } \rightarrow \\
\text { PRRIPIRERAL } \\
\text { (SOMATIC) }
\end{array}
$$

R=sting potantial (-)

- imbal $l_{\text {anle }}$ between $\mathrm{Na}^{+}+\mathrm{K}^{+}$

$$
\begin{aligned}
& \frac{t+1++t}{--} \\
& \frac{--}{t+t+++}
\end{aligned}
$$

Action potential

- CAuSE-stimulus
- Def: Reversal df charge movent.

$$
\mathrm{Na}^{+}+\mathrm{k}^{+}
$$



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PNS

$$
\begin{aligned}
(\text { SENSORy }) \rightarrow \frac{\text { CNS }}{\text { THALAMMS }} & \rightarrow \text { CEREBRUM } \\
& \rightarrow \text { CEREBE } l l u m ~ \\
& \longrightarrow \text { PNS } \rightarrow \text { motor } \\
& \text { (somotic) } \\
& \\
& \\
&
\end{aligned}
$$



Resting potential

$$
\begin{aligned}
& \text { - CAUSE - diff. in } \mathrm{Na}^{t} \text { and } \mathrm{K}^{t} \\
& +t++t+ \\
& \frac{-----}{++++++}
\end{aligned}
$$

Action potential
CAUSE-stimulus
DEF - RFNERSAL OF Charge $\rightarrow_{\text {ouse- movent. of } N_{a} t \text { and } k t ~}^{k t}$


