

受 験 番 号

I

①	$mg(H_2 - H_1)$	②	$\sqrt{2g(H_2 - H_1)}$
③	$L_1 + v_{1x} \sqrt{\frac{2H_1}{g}}$	④	$-\sqrt{2gH_1}$
⑤	mgH_2	⑥	v_{1x}
⑦	$-ev_{2y}$	⑧	$mg\{H_2 - H_1 + e^2H_1\}$

II

①	(r)	②	0
③	2A	④	P, R
⑤	Q, S	⑥	固有振動
⑦	$\frac{4L}{3}$	⑧	$2(L - d)$
⑨	(r) より大きい	⑩	$\frac{vd}{(L - d)(L + d)}$

得 点	I	II	III	IV	計

III

①	qE	②	qEd
③	$\sqrt{\frac{2qEd}{m}}$	④	$(\hbar)$
⑤	qvB_1	⑥	$\frac{mv}{qB_1}$
⑦	$\pi - \theta_1$	⑧	$\frac{2\pi m}{qB_2}$
⑨	$\left(\frac{1}{2} + \frac{\theta_1}{\pi}\right)T_1$	⑩	0

IV

①	$t_1 + \frac{Mv^2}{2C}$	②	$nC_V(T_2 - T_1)$
③	$nR(T_2 - T_1)$	④	$n(C_V + R)(T_2 - T_1)$
⑤	$nC_p(T_2 - T_1)$	⑥	$(\dot{v})$
⑦	$T_A - \frac{2W}{3nR}$		