



RJEŠENJA ISPITA DRŽAVNE MATURE IZ **FIZIKE**
U ŠKOLSKOJ GODINI 2024./2025. (1. ROK)

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1.	D
2.	A
3.	D
4.	D
5.	D
6.	C
7.	A
8.	C
9.	D
10.	A
11.	B
12.	B
13.	C
14.	C
15.	D
16.	D
17.	B
18.	C
19.	A
20.	C
21.	C
22.	A
23.	C
24.	D
25.	$\eta = 1 - \frac{T_2}{T_1}$ 1 bod
	$\eta = 0,25 = 25 \%$ 1 bod



26.	$I_0 = \frac{U_0}{R}$	1 bod
	$U_0 = 200 \text{ V}$	1 bod
27.	$F_R = m_{uk} a$	1 bod
	$F_R = F_{g1} - F_{g2}$	1 bod
	$\frac{m_1}{m_2} = 1,5$	1 bod
	$ L $	
	$(m_1 + m_2)a = m_1g - m_2g$	2 boda
28.	$q = Av$	1 bod
	$p_{din} = \frac{\rho v^2}{2}$	1 bod
	$p_{din} = 8000 \text{ Pa}$	1 bod
29.	$p = \Delta p + p_a$	1 bod
	$\frac{p_1}{T_1} = \frac{p_2}{T_2}$	1 bod
	$p = 2,8 \cdot 10^5 \text{ Pa}$	1 bod
30.	$m = \frac{-b}{a}$	1 bod
	$j = \frac{1}{f}$ i $\frac{1}{f} = \frac{1}{a} + \frac{1}{b}$	1 bod
	$a = 11,4 \text{ cm}$	1 bod
31.	$\Delta E_{gp} = W_1 + W_2$ ili $mgh = W$	1 bod
	$W_1 = \mu mg \cos \alpha \cdot \ell$	1 bod
	$W_2 = \mu mg \cdot s$	1 bod
	$s = 39,3 \text{ m}$	1 bod



32.	$F_g = mg$ i $F_e = Eq_1$	1 bod
	$F = \frac{kq_1q_2}{r^2}$	1 bod
	$F_N = F_g + F_e - F = mg + Eq_1 - \frac{kq_1q_2}{r^2}$	1 bod
	$r = 27,3 \text{ cm}$	1 bod
33.	$B = \mu_0\mu_r \frac{I}{2r\pi}$	1 bod
	$B_u = B_2 - B_1$	1 bod
	$F = B_u I \ell$	1 bod
	$F = 1,2 \cdot 10^{-5} \text{ N}$	1 bod
34.	$E_{\text{ep}} = \frac{1}{2}kA^2$	1 bod
	$F = ky$	1 bod
	$E_k = \frac{1}{2}k(A^2 - y^2)$	1 bod
	$E_k = 0,375 \text{ J}$	1 bod
35.	$\lambda = \frac{\ln 2}{T}$	1 bod
	$N = N_0 e^{-\lambda t}$ ili $N = N_0 2^{\frac{-t}{T}}$	1 bod
	$A = \lambda N$	1 bod
	$A = 6,79 \cdot 10^{18} \text{ Bq}$	1 bod