



RJEŠENJA ISPITA DRŽAVNE MATURE IZ **FIZIKE**  
U ŠKOLSKOJ GODINI 2024./2025. (2. ROK)

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1.	D
2.	B
3.	A
4.	D
5.	D
6.	D
7.	C
8.	C
9.	C
10.	C
11.	B
12.	D
13.	D
14.	C
15.	D
16.	A
17.	D
18.	A
19.	C
20.	A
21.	D
22.	A
23.	C
24.	D
25.	$\eta = 1 - \frac{T_2}{T_1}$ 1 bod
	$\eta = 0,44 = 44 \%$ 1 bod



26.	$\frac{U_1}{U_2} = \frac{I_2}{I_1}$	1 bod
	$U_2 = 7 \text{ V}$	1 bod
27.	$G = 5 \text{ N}$ i $F_{tr} = 3 \text{ N}$	1 bod
	$F_{tr} = \mu F_p$	1 bod
	$\mu = 0,6$	1 bod
28.	$S_1 v_1 = S_2 v_2$	1 bod
	$p = \frac{\rho v^2}{2}$	1 bod
	$p = 50\,000 \text{ Pa}$	1 bod
29.	$pV = nRT$	1 bod
	$\frac{V_1}{T_1} = \frac{V_2}{T_2}$	1 bod
	$T_2 = 812 \text{ K}$	1 bod
30.	$\frac{\sin \alpha}{\sin \beta} = \frac{n_2}{n_1}$	1 bod
	$n = \frac{c}{v}$	1 bod
	$v = 2,8 \cdot 10^8 \text{ m/s}$	1 bod
31.	$P = \frac{W_{tr}}{t}$	1 bod
	$W_{tr} = E_k - E_{gp}$	1 bod
	$E_k = \frac{mv^2}{2}$ i $E_{gp} = mgh$	1 bod
	$h = 0,9 \text{ m}$	1 bod



32.	$F_e = \frac{kq^2}{\varepsilon_r r^2}$	1 bod
	$F'_g = mg - \rho_{tek} g V_{kug}$	1 bod
	$tg \frac{\alpha}{2} = \frac{F_e}{F'_g}$	1 bod
	$q = 4,85 \cdot 10^{-7} \text{ C}$	1 bod
33.	$F_L = qvB \quad i \quad F_{cp} = \frac{mv^2}{r}$	1 bod
	$F_L = F_{cp}$	1 bod
	$\frac{mv^2}{2} = Uq$	1 bod
	$2r = 21 \text{ cm}$	1 bod
34.	$T = \frac{t}{n}$	1 bod
	$T = 2\pi \sqrt{\frac{l}{g}}$	1 bod
	$h = l - l \cos \alpha$	1 bod
	$h = 1,25 \text{ cm}$	1 bod
35.	$N = N_0 2^{\frac{-t}{T}}$	1 bod
	$\lambda = \frac{\ln 2}{T}$	1 bod
	$A = N\lambda$	1 bod
	$A = 0.0048 Bq$	1 bod