



RJEŠENJA OGLEDNOGA ISPITA DRŽAVNE MATURE IZ FIZIKE
U ŠKOLSKOJ GODINI 2021./2022.

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1.	B
2.	A
3.	A
4.	B
5.	C
6.	D
7.	D
8.	C
9.	B
10.	D
11.	D
12.	C
13.	A
14.	B
15.	B
16.	B
17.	B
18.	A
19.	C
20.	C
21.	A
22.	B
23.	D
24.	A
25.	$\frac{p_1 V_1}{T_1} = \frac{p_2 V_2}{T_2} \quad 1 \text{ bod}$ $V_2 = 9,86 \text{ m}^3 \quad 1 \text{ bod}$



26.	$\frac{1}{a} + \frac{1}{b} = \frac{1}{f}$	1 bod
	$b = -10 \text{ cm}$	1 bod
27.	$G = F_u$	1 bod
	$F_u = \rho g V_u$	1 bod
	$G = 952,75 \text{ N}$	1 bod
28.	$pV = nRT$	1 bod
	$W = p\Delta V$	1 bod
	$\Delta V = 1,54 \cdot 10^{-2} \text{ m}^3$	1 bod
29.	$\varphi = k \frac{q}{r}$	1 bod
	$W = Uq$ ili $E_k = Uq$	1 bod
	$E_k = 10^{-9} \text{ J}$	1 bod
30.	$E_k = E_f - W_i$	1 bod
	$E_f = \frac{hc}{\lambda}$	1 bod
	$E_k = 1,11 \text{ eV}$	1 bod
31.	$F_R = F - m g \sin \alpha - \mu m g \cos \alpha$	1 bod
	$F_R = m a$	1 bod
	$s = \frac{1}{2} a t^2$	1 bod
	$t = 4,13 \text{ s}$	1 bod



32.	$E_{k1} - W_{tr} = E_{k2}$ 1 bod
	$W_{tr} = \mu mgs$ i $E_k = \frac{mv^2}{2}$ 1 bod
	$E_{gp} + E_{k2} = E_{k3}$ 1 bod
	$v = 10,58 \text{ m/s}$ 1 bod
33.	$\frac{1}{R_{12}} = \frac{1}{R_1} + \frac{1}{R_2}$ $R = R_1 + R_3$ 1 bod
	$I = \frac{U}{R}$ 1 bod
	$P = UI$ 1 bod
	$P_3 = 7,98 \text{ W}$ 1 bod
34.	Negativno nabijena čestica 1 bod
	$F_L = qvB$ i $F_{cp} = \frac{mv^2}{r}$ 1 bod
	$v = \frac{2r\pi}{T}$ 1 bod
	$t = 1,77 \cdot 10^{-11} \text{ s}$ 1 bod
35.	35.1. 1. 1 bod
	35.2. $\frac{1}{\sqrt{k}}$ 1 bod
	35.3. $T = 2\pi\sqrt{\frac{m}{k}}$ 1 bod
	$k_1 = \frac{1}{4}k_2$ 1 bod