KLJUČ RJEŠENJA

1. C	**9. D**	**17. C**
2. B	**10. D**	**18. B**
3. C	**11. C**	**19. B**
4. A	**12. B**	**20. C**
5. D	**13. C**	**21. D**
6. D	**14. C**	**22. C**
7. A	**15. B**	**23. A**
8. A	**16. D**	**24. A**

25.

$\rho g \Delta V = mg$ 1 bod

$\Delta V = 0{,}07 \ m^3$ 1 bod

26.

$mgh = mv^2/2$ ili $v^2 = 2gh$ 1 bod

$v = 15{,}5 \ m/s$ 1 bod

27.

$Pt = Q$ ili $Pt = W$ 1 bod

$P = 1260 \ W$ 1 bod

28.

$R_L = 2\pi f L$ ili $R_L = \omega L$ 1 bod

$R_L = 125{,}7 \ \Omega$ 1 bod

29.

$\sin a / \sin \beta = n$ 1 bod

$\beta = 18{,}6^0$ 1 bod

30.

$Q = Nhf$ ili $E = hf$ 1 bod

$Q = 4{\circ}10^{-4} \ J$ 1 bod

31.

$a = \Delta v / \Delta t$ ili $v = v_0 + at$ 1 bod

$F_{tr} = F$ 1 bod

$\mu mg = ma$ 1 bod

$\mu = 0.2$ 1 bod

32.

$U = N \circ 3/2 \; kT$ ili $E_k = 3/2 \; kT$ 1 bod

$pV = NkT$ ili $pV = nRT$ 1 bod

$\Delta U = 3/2 \; p\Delta V$ 1 bod

$\Delta U = 22500 \; J$ 1 bod

33.

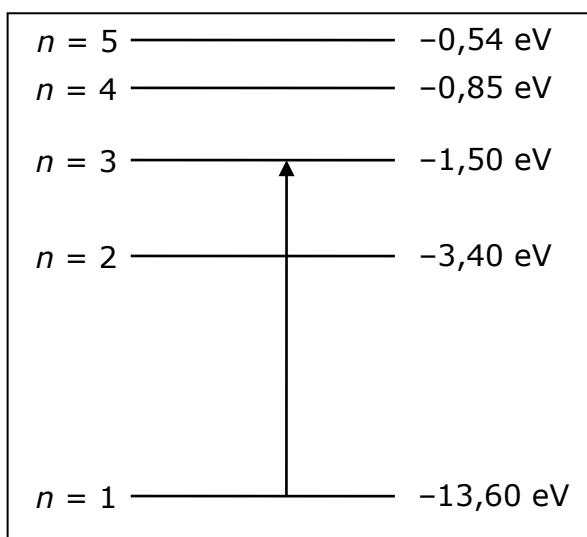$U_R = E - U_{AB}$ 1 bod

$R_{AB} = 1/16 + 1/48 = 12 \; \Omega$ 1 bod

$I = I_{AB} = U_{AB} / R_{AB}$ 1 bod

$R = U_R/I = 60 \; \Omega$ 1 bod

34.

$A = 15 \; mm$ 1 bod

$T = 1 \; s$ 1 bod

$V_0 = 2\pi A/T$ 1 bod

$V_0 = 0,1 \; m/s$ (ili 0.094 m/s) 1 bod

35.

$E_f = E_m - E_n$ 1 bod

$E_n = -13,60 + 12,10 = -1,50 \; eV$ 1 bod

$n = 5$ ————————	$-0,54$ eV
$n = 4$ ————————	$-0,85$ eV
$n = 3$ ————————	$-1,50$ eV
$n = 2$ ————————	$-3,40$ eV
$n = 1$ ————————	$-13,60$ eV

1 bod

$E_{min} = E_3 - E_2 = 1,9 \; eV$ 1 bod