

FIZIKA - Ključ za odgovore, jesenski rok 2019.

ISPITNA KNJIŽICA 1.

1. B	6. C	11. D	16. B	21. A
2. C	7. B	12. B	17. D	22. B
3. C	8. C	13. D	18. B	23. A
4. D	9. B	14. B	19. B	24. A
5. C	10. B	15. C	20. D	25. A

ISPITNA KNJIŽICA 2.

26.

$$F_{cp} = \frac{mv^2}{r} \quad 1 \text{ bod}$$

$$F_{cp} = 3 \cdot 10^{-3} \text{ N} \quad 1 \text{ bod}$$

27.

$$Q = \Delta U + W \quad 1 \text{ bod}$$

$$W = -7 \text{ kJ} \quad 1 \text{ bod}$$

28.

$$I = \frac{\varepsilon}{R_u + R_v} \quad 1 \text{ bod}$$

$$R_u = 0.8 \, \Omega \quad 1 \text{ bod}$$

29.

$$d \sin \alpha_k = k \lambda \quad 1 \text{ bod}$$

$$k_{\max} = 2 \quad 1 \text{ bod}$$

30.

$$E = \frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}} \quad 1 \text{ bod}$$

$$v = 0,986 \, c \quad 1 \text{ bod}$$

31.

$$E_k = E_{ep} \quad 1 \text{ bod}$$

$$E_k = \frac{mv^2}{2} \quad E_{ep} = \frac{kx^2}{2} \quad 1 \text{ bod}$$

$$v = 25 \text{ m/s} \quad 1 \text{ bod}$$

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32.

$$pV = nRT \quad 1 \text{ bod}$$

$$\rho = \frac{m}{V} \quad \text{i} \quad n = \frac{m}{M} \quad 1 \text{ bod}$$

$$\rho_2 = 6 \text{ g/cm}^3 \quad 1 \text{ bod}$$

33.

$$E_k = \frac{1}{2}mv^2 \quad 1 \text{ bod}$$

$$r = \frac{mv}{Bq} \quad 1 \text{ bod}$$

$$r = 3,2 \cdot 10^{-2} \text{ m} \quad 1 \text{ bod}$$

34.

$$v^2 = v_0^2 + 2gh \quad 1 \text{ bod}$$

$$D = v_0 \sqrt{\frac{2h}{g}} \quad 1 \text{ bod}$$

$$v_0 = 15,14 \text{ m/s} \quad 1 \text{ bod}$$

$$D = 112,3 \text{ m} \quad 1 \text{ bod}$$

35.

$$F_{cp} = F_L \quad 1 \text{ bod}$$

$$r = \frac{mv}{qB} \quad 1 \text{ bod}$$

$$d = 2(r_e + r_p) \quad 1 \text{ bod}$$

$$d = 6,96 \text{ cm} \quad 1 \text{ bod}$$

36.

$$E_{uk} = E_{kmax} \quad 1 \text{ bod}$$

$$E_k = \frac{mv_0^2}{2} \quad 1 \text{ bod}$$

$$v_0 = 2\pi Af \quad 1 \text{ bod}$$

$$E_{uk} = 1,26 \text{ J} \quad 1 \text{ bod}$$

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37.

$$E_k = eU \quad 1 \text{ bod}$$

$$p = \sqrt{2mE_k} \quad 1 \text{ bod}$$

$$\lambda = \frac{h}{p} \quad 1 \text{ bod}$$

$$\lambda = 3,9 \cdot 10^{-11} \text{ m} \quad 1 \text{ bod}$$