



## Ključ za odgovore ispita iz Fizike na ljetnom roku državne mature 2016.

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

25. **2 boda**

$$v = \frac{\Delta x}{\Delta t}$$

**1 bod**

$$v = 0.6 \text{ m/s}$$

**1 bod**

26. **2 boda**

$$p = \frac{F_g}{S} = \frac{mg}{S}$$

**1 bod**

$$p = 1,58 \cdot 10^4 \text{ Pa}$$

**1 bod**

27. **2 boda**

$$m_1 c(\Theta - t_1) = m_2 c(t_2 - \Theta)$$

**1 bod**

$$\Theta = 60^\circ \text{C}$$

**1 bod**

28. **2 boda**

$$B = \mu_0 \frac{I}{2r\pi}$$

**1 bod**

$$I = 25 \text{ A}$$

**1 bod**



29. **2 boda**

$$L = 10 \log \frac{I}{I_0}$$

**1 bod**

$$L = 150 \text{ dB}$$

**1 bod**

30. **2 boda**

$$\lambda = \frac{h}{mv}$$

**1 bod**

$$\lambda = 7,28 \cdot 10^{-10} \text{ m}$$

**1 bod**

31. **4 boda**

$$F = m \cdot a$$

**1 bod**

$$m = m_A + m_B$$

**1 bod**

$$\vec{F}_{BA} = -\vec{F}_{AB} = -m_B a$$

**1 bod**

$$F_{BA} = -6 \text{ N}$$

**1 bod**

32. **4 boda**

$$\eta = 1 - \frac{T_2}{T_1}$$

**1 bod**

$$\eta = \frac{W}{Q_1}$$

**1 bod**

$$Q_1 = W + Q_2$$

**1 bod**

$$W = 4,45 \cdot 10^5 \text{ J}$$

**1 bod**

33. **4 boda**

$$Q = CU$$

**1 bod**

$$Q = Q_1 + Q_2$$

**1 bod**

$$C = C_1 + C_2$$

**1 bod**

$$U = 210 \text{ V}$$

**1 bod**



34. **4 boda**

$$\frac{1}{a} + \frac{1}{b} = \frac{1}{f}$$

**1 bod**

$$b = 48 \text{ cm}$$

**1 bod**

$$-\frac{b}{a} = \frac{y'}{y}$$

**1 bod**

$$y' = -6 \text{ cm}$$

**1 bod**

35. **4 boda**

$$T = 5 \text{ god.}$$

**1 bod**

$$\lambda = \frac{\ln 2}{T}$$

**1 bod**

$$A = \lambda N$$

**1 bod**

$$A = 8,856 \cdot 10^{-6} \text{ Bq}$$

**1 bod**