

**İKİNCİ DENEME SORULARININ CEVAPLARI**  
**26/OCAK-7/ŞUBAT ITAP OLİMPİYAT OKULU**

1.  $\frac{t_1}{t_2} = \frac{5}{4}$

2.  $\frac{v_2}{v_1} = \sqrt{3}$

3.  $t=31$  s

4.  $H=5780$  m

5.;  $\tan\theta = \frac{H}{\ell}$

6.  $\frac{t_1}{t_2} = \frac{T_1 + T_2}{T_2 - T_1}$

7.  $\frac{t_1}{t_2} = 2$

8.  $F = \frac{2f(m_1 + m_2)m_2g}{m_1}$

9.  $K' = n^4 K$

10.  $\theta = 60^\circ$

11.  $v = \frac{\sqrt{2g\ell}}{2}$

12.  $\cos\theta = \sqrt{\frac{1}{2} + \frac{m_1}{2m_2}}$

15.  $x = \frac{\ell}{2}$

16.  $N_x = 20$  N

23.  $\frac{qE}{mg} = 3$

24.  $Q = \frac{\varepsilon^-}{\varepsilon^+}$

25.  $\frac{P_1}{P_2} = 4$

26.  $B = \frac{mgR}{\varepsilon\ell} \frac{1-n}{1+n}$

27.  $H_g = f$

28.  $S = 756$  m<sup>2</sup>

29.  $\frac{|\vec{y}|}{|\vec{z}|} = \frac{5}{3}$

30.  $\frac{E_F}{E_O} = \frac{45}{8}$

**17.**  $f = \frac{\sqrt{3}}{3}$

**18.**  $t = \frac{\pi}{2\sqrt{kg\cos\theta}}$ ;  $v_{\text{mak}} = \sqrt{kg\cos\theta} \times$

**19.**  $\rho = 0,95 \text{ gr/cm}^3$

**20.**  $t^\circ = 75 \text{ }^\circ\text{C}$

**21.**  $T_3 = 84 \text{ }^\circ\text{C}$

**22.**  $\rho = 1,6 \text{ g/cm}^3$