



Alpha Waves Coaching Centre

www.alphawavescoaching.com



NEET, JEE, CA, TUITION
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NEET MICRO TEST 7 (17.11.2024)

20x4=80 MARKS

Botany: Cell cycle & Cell division, **Zoology:** Locomotion & Movement**Chemistry:** Redox reactions, **Physics:** Gravitation**Solution**

1. Answer: (2)

2. Answer: (3)

3. Answer: (1)

4. Answer: (2)

5. Answer: (4)

6. Answer: (4)

7. Answer: (4)

8. Answer: (2)

9. Answer: (4)

10. Answer: (3)

11. Answer: (2)

Addition of H_2 , so it is a reduction.

12. Answer: (2)

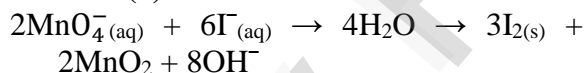
In ClO_4^- , Cl is in +7 stateIn ClO_3^- , Cl is in +5 stateIn ClO_2^- , Cl is in +3 state

In HCl, Cl is in -1 state

13. Answer: (4)

Oxidation state of F changes from 0 to -1 only

14. Answer: (3)



15. Answer: (3)

$$20 \times 0.1 \times 5 = 2 \times 25 \times 0.2$$

16. Answer: (4)

Using energy conservation

$$\frac{-GMm}{R} + \frac{1}{2}m(\sqrt{gR})^2 = \frac{-GMm}{\left(\frac{R}{2}\right)} + K$$

$$\Rightarrow K = \frac{GMm}{R} + \frac{mgR}{2} = mgR + \frac{mgR}{2}$$

$$\Rightarrow \left[K = \frac{3mgR}{2} \right]$$

17. Answer: (2)

$$V_p = -\frac{GM}{R} - \frac{G2M}{3R}$$

$$V_p = -\frac{5GM}{3R}$$

18. Answer: (1)

$$v_e = \sqrt{\frac{8\pi G\rho R^2}{3}}$$

$$\frac{v_e}{v'_e} = \sqrt{\frac{\rho R^2}{\frac{\rho}{2}(2R)^2}}$$

$$\Rightarrow v'_e = \sqrt{2}v_e$$

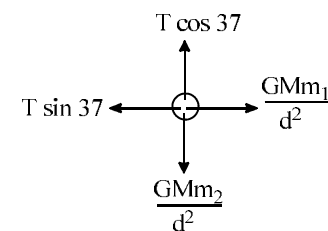
19. Answer: (2)

Since angular momentum is conserved

$$mv_1d_1 = mv_2d_2$$

$$\Rightarrow \left[v_2 = \frac{v_1d_1}{d_2} \right]$$

20. Answer: (3)



$$\text{we know } T \cos 37 = \frac{GMm_2}{d^2}$$

$$T \sin 37 = \frac{GMm_1}{d^2}$$

$$\Rightarrow \frac{m_2}{m_1} = \frac{\cos 37}{\sin 37} = \frac{4}{3}$$

$$\Rightarrow \frac{m_1}{m_2} = \frac{3}{4}$$