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FINAL TEST SERIES for NEET-2023

MM : 720

Test - 2

Time : 3 Hrs. 20 Mins.

Answers and Solutions

PHYSICS

SECTION - A

1. Answer (4)

$$\text{Escape energy} = -\frac{GMm}{R}$$

⇒ It is independent of angle of projection.

2. Answer (2)

$$g = \frac{GM}{R^2} \Rightarrow M = \frac{gR^2}{G}$$

3. Answer (3)

Geostationary orbit is synchronised with rotation of earth.

4. Answer (3)

$$v_e = \sqrt{\frac{2GM_e}{R_e}} = 11.2 \text{ km/s}$$

$$v_p = \sqrt{\frac{2GM_e}{2R_e}} = 2 \times 11.2 = 22.4 \text{ km/s}$$

5. Answer (3)

$$V_C = -\frac{3}{2} \frac{GM}{R} = -\frac{3}{2} gR$$

6. Answer (4)

Force on mass of 2 kg: $F = m\ddot{r} = 20 \ddot{r} + 20 \ddot{\theta}$

$$\text{Work done by field: } w = 20 \int_0^5 dx + 20 \int_0^4 dy$$

$$= 20 \times 5 + 20 \times 4 = 180 \text{ J}$$

Work done by external agent = -180 J

7. Answer (2)

$$\frac{GM}{r^2} = \frac{GM}{(r-x)^2}$$

$$\text{On solving, } x = \frac{r}{2}$$

$$V = -\frac{GM}{r}$$

$$E = -\frac{GM}{r} + \left(-\frac{GM}{\frac{r}{2}}\right) = -\frac{4GM}{r}$$

8. Answer (1)

$$z = \frac{3}{2} \frac{YA}{Z} x^2 \quad (\text{Parabolic Variation})$$

9. Answer (3)

$$\alpha_A = \frac{F}{A} = \frac{8 \times 10}{0.5 \times 10^{-4}}$$

$$\alpha_B = \frac{F}{A} = \frac{3 \times 10}{0.5 \times 10^{-4}}$$

$$\Rightarrow \frac{\alpha_A}{\alpha_B} = \frac{8}{3}$$

10. Answer (2)

$$\Delta J = \frac{F \times l}{2YA}$$

$$\Delta J = \frac{l \times A \times \rho g \times l}{2Y \times A}$$

$$\Delta J = \frac{64 \times 1600 \times 10}{2 \times 4 \times 10^8}$$

$$= 64 \times 2 \times 10^{-3}$$

$$= 128 \times 10^{-3}$$

$$= 1.28 \times 10^{-2} = 1.28 \text{ mm}$$

Answer Key Of Aakash Study Package

Annelies Wilder-Smith

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