

Physics

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(Chapter 7) (Gravitation) (Exercises)

(Class 11)

$$\therefore \frac{M_e}{M_j} = \frac{4\pi^2 R_e^3}{GT_e^2} \times \frac{GT_j^2}{4\pi^2 R_j^3} = \frac{R_e^3}{R_j^3} \times \frac{T_j^2}{T_e^2} = \left(\frac{1.769 \times 24 \times 60 \times 60}{365.25 \times 24 \times 60 \times 60} \right)^2 \times \left(\frac{1.496 \times 10^{11}}{4.22 \times 10^8} \right)^3 = 1045.04$$

$$\therefore \frac{M_e}{M_j} = 1000$$

$$M_e = 1000 \times M_j$$

Hence, it can be inferred that the mass of Jupiter is about one-thousandth that of the Sun.

Question 7.5:

Let us assume that our galaxy consists of 2.5×10^{11} stars each of one solar mass. How long will a star at a distance of 50,000 ly from the galactic centre take to complete one revolution? Take the diameter of the Milky Way to be 10^5 ly.

Answer 7.5:

Mass of our galaxy Milky Way, $M = 2.5 \times 10^{11}$ solar mass

Solar mass = Mass of Sun = 2.0×10^{36} kg

Mass of our galaxy, $M = 2.5 \times 10^{11} \times 2 \times 10^{36} = 5 \times 10^{47}$ kg

Diameter of Milky Way, $d = 10^5$ ly

Radius of Milky Way, $r = 5 \times 10^4$ ly

1 ly = 9.46×10^{15} m

$\therefore r = 5 \times 10^4 \times 9.46 \times 10^{15} = 4.73 \times 10^{20}$ m

As a star revolves around the galactic centre of the Milky Way, its time period is given by the relation:

$$T = \left(\frac{4\pi^2 r^3}{GM} \right)^{\frac{1}{2}}$$

$$= \left(\frac{4 \times (3.14)^2 \times (4.73)^3 \times 10^{60}}{6.67 \times 10^{-11} \times 5 \times 10^{47}} \right)^{\frac{1}{2}} = \left(\frac{39.48 \times 105.82 \times 10^{30}}{33.35} \right)^{\frac{1}{2}}$$

$$= (1.25.27 \times 10^{30})^{\frac{1}{2}} = 1.12 \times 10^{16} \text{ s}$$

1 year = $365 \times 24 \times 60 \times 60$ s

1 s = $\frac{1}{365 \times 24 \times 60 \times 60}$ years

$$\therefore 1.12 \times 10^{16} \text{ s} = \frac{1.12 \times 10^{16}}{365 \times 24 \times 60 \times 60}$$

$$= 3.55 \times 10^8 \text{ years}$$

Question 7.6:

Choose the correct alternative:

- (a) If the zero of potential energy is at infinity, the total energy of an orbiting satellite is negative of its kinetic/potential energy.
- (b) The energy required to launch an orbiting satellite out of earth's gravitational influence is more/less than the energy required to project a stationary object at the same height (as the satellite) out of earth's influence.

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