

Worksheet: Gravitation

West Bengal State Board · Class 11 · Physics · 5 questions · 13 marks

Name: _____

Date: _____

Score: _____ / 13

Q1. Find g at a height equal to R above Earth's surface. [2 marks]

Q2. Why is g zero at the centre of the Earth? [2 marks]

Q3. Find the orbital velocity of a satellite at 300 km height ($R = 6400$ km, $M = 6e24$ kg). [3 marks]

Q4. Calculate the escape velocity on the Moon ($g = 1.62$ m/s², $R = 1740$ km). [3 marks]

Q5. If Earth's period is 1 year at radius R , find the period of a planet at radius $4R$. [3 marks]
