

Name: _____

Date: _____

Universal Law of Gravitation
Group Board Work – Practice Problems

The Subatomic Particles			
Representation	Name	Mass (kg)	Charge (C)
	Proton	1.67×10^{-27}	$+1.602 \times 10^{-19}$
	Neutron	1.67×10^{-27}	0
	Electron	9.11×10^{-31}	-1.602×10^{-19}

$$F = G \frac{m_1 m_2}{r^2}$$

$$g = \frac{GM}{r^2}$$

Problem Set 1:

- 1) The nucleus of the helium atom contains two protons that are separated by about 3.0×10^{-15} m. Find the magnitude of the gravitation force of attraction AND the electrostatic force that each proton exerts on the other. How do they compare?
- 2) The planet Saturn has a mass of 5.67×10^{26} kg and a radius of 6.3×10^7 m. Find the acceleration due to gravity on Saturn. How much gravitational force will be on a 60kg person there?
- 3) The force of attraction between M and m is 26N. What will this force become if m is tripled and the distance between it and M is halved?

Problem Set 2:

- 1) Calculate and compare the magnitude of both the electrostatic force and gravitational force of an electron and proton in a hydrogen atom. We know the electron orbits the proton with a distance of 0.053nm? Look up the mass of electron and proton in the table above.
- 2) Mars Reconnaissance Orbiter (MRO) was a spacecraft designed to study the geology of Mars (Mass 6.4×10^{23} and radius 3.4×10^6 m) and was launched in 2005. MRO's mass was 1,031 kg and it orbited at 400km above Mars surface. What was the a) Force of gravitational attraction on MRO? b) What was the gravitational field strength at its orbiting height?
- 3) The force of attraction between M and m is 30N. What will this force become if M is halved m is tripled and the distance between it and M is doubled?

Problem Set 3:

- 1) Lithium has three protons in its nucleus. The gravitational force between the three protons and one of the orbiting electrons is 1.45×10^{-47} N. What is orbital radius of the electron around the nucleus? Calculate the electrostatic force of attraction between the three protons and 1 electron and compare to the gravitational force. Which force is larger and by how much?
- 2) The force of the Sun on Neptune is 6.68×10^{20} N. This force keeps the planet in Orbit. Knowing that the mass of the Sun is 2.0×10^{30} kg and the orbital distance of Neptune is 4.5×10^9 km from the Sun, what is the mass of Neptune?
- 3) The force of attraction between M and m is 10N. What will this force become if m is halved and the distance between it and M is halved?

Universal Law Of Gravitation Problem Set Answers

Edwin Arthur Burtt



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Proceedings, American Philosophical Society (vol. 129, No. 4, 1985) American Philosophical Society, **Oswaal CDS Question Bank | Chapter-wise & Topic-wise Previous Years Solved Question Papers (2014-2023) Set of 3 Books : English, General Knowledge, Elementary Mathematics For 2024 Exam** Oswaal Editorial Board,2024-01-25 Description of the product 100% updated with Fully Solved April September 2023 Papers Concept Clarity with detailed explanations of 2014 to 2023 Papers Extensive Practice with 1200 Questions and Two Sample Question Papers Crisp Revision with Concept Based Revision Notes Mind Maps Mnemonics Expert Tips helps you get expert knowledge master crack CDS in first attempt Exam insights with 5 Year wise 2019 2023 Trend Analysis empowering students to be 100% exam ready Oswaal CDS Question Bank | Previous Years Solved Question Papers Chapter-Wise & Topic-Wise General Knowledge (2014-2023) For 2024 Exam Oswaal Editorial Board,2024-01-19 Description of the product 100% updated with Fully Solved April September 2023 Papers Concept Clarity with detailed explanations of 2014 to 2023 Papers Extensive Practice with 1200 Questions and Two Sample Question Papers Crisp Revision with Concept Based Revision Notes Mind Maps Mnemonics Expert Tips helps you get expert knowledge master crack CDS in first attempt Exam insights with 5 Year wise 2019 2023 Trend Analysis empowering students to be 100% exam ready **Ssc Cgl Tier-I Examination, 40 Solved Papers (2016-2022) (4000 Questions With Answers & Detailed Explanations)** Team Prabhat,2022-11-18 Dive into the treasure trove of SSC CGL Tier I Examination with 40 Solved Papers 2016 2022 meticulously crafted by Team Prabhat This comprehensive guide is your key to conquering one of India s most competitive exams with ease and confidence Embark on a journey through 4000 meticulously solved questions each accompanied by detailed explanations that illuminate even the most challenging concepts With a wealth of practice material at your fingertips you ll sharpen your skills and master essential strategies to ace every section of the exam Uncover the secrets to success as you unravel the plot points of each question delving into the intricacies of problem solving techniques and time management strategies Witness the evolution of your skills as you progress through the pages building a solid foundation of knowledge and confidence Explore themes of dedication perseverance and triumph as you immerse yourself in the character analysis of each question From quantitative aptitude to English comprehension discover the strengths and weaknesses of various question types empowering yourself to tackle any challenge that comes your way With its unwavering focus on excellence and innovation 40 Solved Papers 2016 2022 sets a new standard for SSC CGL Tier I preparation Its meticulous attention to detail and comprehensive coverage ensure that every reader is equipped with the tools they need to succeed Experience the exhilaration of achievement as you conquer each question inching closer to your dream of a successful career in the government sector Let the 40 Solved Papers 2016 2022 be your trusted companion on the path to success guiding you through every twist and turn with expertise and insight Join the ranks of satisfied readers who have unlocked the door to success with Team Prabhat s 40 Solved Papers 2016 2022 Don t miss your

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