

- 3.3.1 State Coulomb's Law in words. (2)
3.3.2 Calculate the net force acting on charge Q_3 due to the presence of Q_1 and Q_2 . (7)
3.3.3 Define electric field at a point in words. (2)
3.3.4 Draw the net electric field pattern due to charges Q_2 and Q_3 . (3)
3.3.5 Calculate the magnitude and direction of electric field between Q_3 and Q_1 . (3)
[27]

QUESTION 4

In the circuit diagram below the reading on voltmeter V_1 is 12 V and the reading on ammeter A_1 is 2 A.



Calculate the:

- 4.1 Reading on V_2 (3)
4.2 Reading on A_2 (4)
4.3 Amount of charge that flows through ammeter A_1 in 120 s (3)

[10]

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Druce, H. W. Blood-Ryan, 1916 Science Giants: Physical Science Alan Ticotsky, 2007 Chemistry electricity and magnetism physics gravity displacement levers pendulums Newton's laws fluid motion and relativity and engineering and technology specifically lenses phonographs animation the telegraph rocketry bouncing balls and skyscrapers are found among this book's 27 activity topics 152 pages **Physical Science Under Microgravity: Experiments on Board the SJ-10 Recoverable Satellite** Wenrui Hu, Qi Kang, 2019-10-16 This book presents the physical science experiments in a space microgravity environment conducted on board the SJ 10 recoverable satellite which was launched on April 6th 2016 and recovered on April 18th 2016 The experiments described were selected from 100 proposals from various institutions in China and around the world and have never previously been conducted in the respective fields They involve fluid physics and materials science and primarily investigate the kinetic properties of matter in a space microgravity environment The book provides a comprehensive review of these experiments as well as the mission's execution data collection and scientific outcomes

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