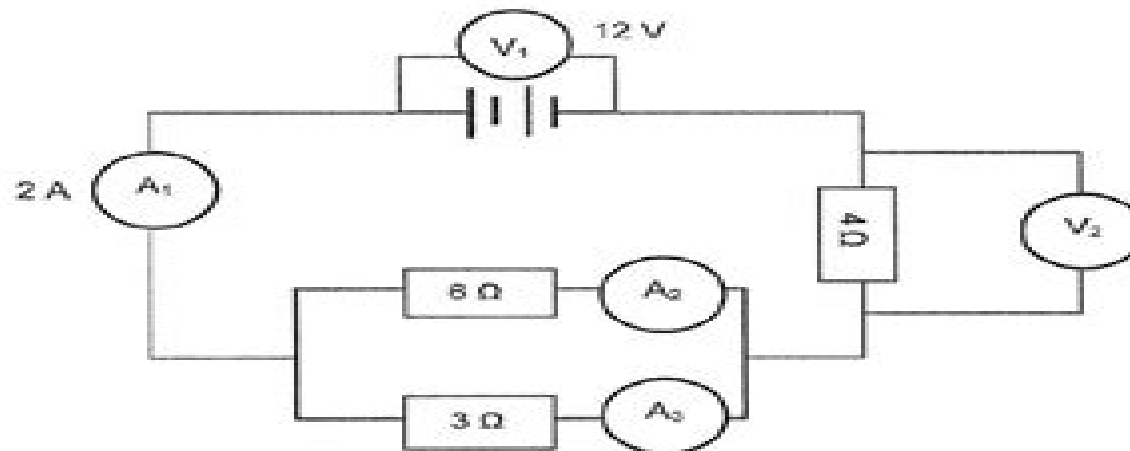


- 3.3.1 State Coulomb's Law in words. (2)
3.3.2 Calculate the net force acting on charge Q_3 due to the presence of Q_1 and Q_2 . (7)
3.3.3 Define electric field at a point in words. (2)
3.3.4 Draw the net electric field pattern due to charges Q_2 and Q_3 . (3)
3.3.5 Calculate the magnitude and direction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

Physical Science Controlled Test

Wolfgang Guggemos

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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