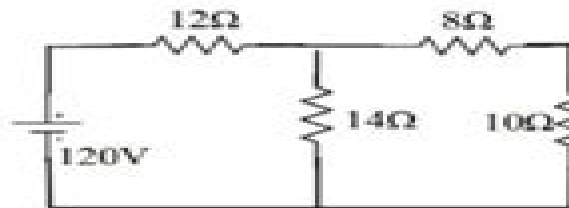


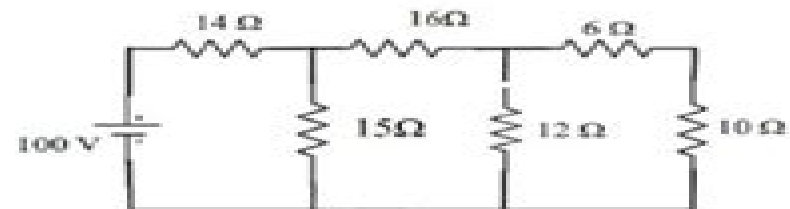
APPLIED ELECTRICITY

ASSIGNMENT SOLUTIONS

Calculate the current flowing in the 10Ω resistor for (a) and (b) below using the Current Divider Rule.



Q1



Q2

SOLUTION TO Q1

- Calculating the total resistance (R_T) gives:

$$R_T = 12 + \frac{14(18)}{14 + 18}$$

$$R_T = 19.875\Omega$$

- Thus, Calculating the total current (I) that flows in the circuit gives,

$$I = \frac{120}{19.875}$$

$$I = 6.038A$$

- By applying current divider rule to calculate the current through the 10Ω resistor i.e $I(10\Omega)$ gives:

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Power transmitted by electricity and applied by the electric motor Philip Atkinson, 1902 Electric Circuit Theory R. Yorke, 2013-10-22 Electric Circuit Theory provides a concise coverage of the framework of electrical engineering Comprised of six chapters this book emphasizes the physical process of electrical engineering rather than abstract mathematics Chapter 1 deals with files circuits and parameters while Chapter 2 covers the natural and forced response of simple circuit Chapter 3 talks about the sinusoidal steady state and Chapter 4 discusses the circuit analysis The fifth chapter tackles frequency response of networks and the last chapter covers polyphase systems This book will be of great help to electrical electronics and control engineering students or any other individuals who require a substantial understanding of the physical aspects of electrical engineering Statutory Rules and Orders Other Than Those of a Local, Personal Or Temporary Character (varies Slightly). Great Britain, Great Britain. Laws, statutes, etc, 1949 *The Electrician* , 1917

Readers' Guide to Periodical Literature Anna Lorraine Guthrie, 1915 An author subject index to selected general interest periodicals of reference value in libraries *The Electrical Review* , 1912 COYNE PRACTICAL APPLIED ELECTRICITY , 1946 **The Electrical Journal** , 1896 *Elementary Treatise on Physics, Experimental and Applied* Adolphe Ganot, 1879

Reviewing **Applied Electricity S**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Applied Electricity S**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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