

DEHRADUN INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRICAL ENGINEERING

Assignment:-1



EA1210-Introduction to EE & ECE-Unit 1: DC N/W Theorems

Note: - All resistances are in ohm (Ω)



(Ans: - 0.6 A, 0.3 A, 0.4 A, 0.2 A, 0.6 A, 15 Watts)



Q2. A Wheatstone bridge ABCD has the following details: $AB=10 \Omega BC = 30 \Omega CD = 15 \Omega \&$ DA = 20 Ω . A battery of e.m.f. 2 V and negligible internal resistance is connected between A & C with A positive. A galvanometer of 40 ohm resistance is connected between B & D. Determine the magnitude and direction of current in the galvanometer using Thevenin's theorem. (Ans: - R_{Th} = 16.07 Ω , V_{Th} = 0.642 V, 11.5 mA from B to D)





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Find resistance between P-Q (fig 8) and A-B (fig 9) Q9.



