

Date: - 16.12.24

TENDER HEART HIGH SCHOOL; SEC-33B, CHD.

Subject: → PHYSICS

CLASS-X

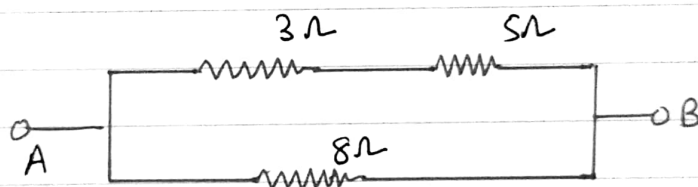
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Practice Assignment on Current Electricity Chapter

- Q1. → (a) Define Specific resistance. [3]  
(b) What happens to the specific resistance of a conductor, if its length is doubled?  
(c) Name a substance whose specific resistance almost unchanged with the increase in temperature.

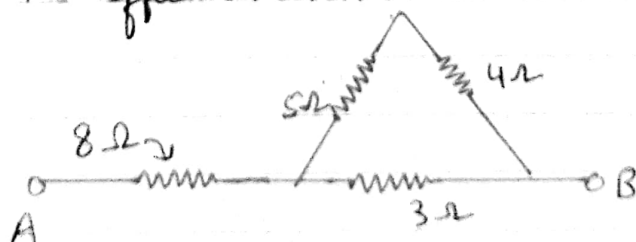
- Q2. → In an electrical circuit, three incandescent bulbs A, B and C of ratings 40W, 60W and 100W respectively, are connected in parallel to an electric source. Write the order of brightness. [2]

- Q3. → (i) Calculate the total resistance across AB. [3]



- (ii) If a cell of E.M.F. 24V with negligible internal resistance is connected across AB, then calculate the current drawn from the cell.

- Q4. → Calculate the effective resistance across AB. [3]



- Q5. → An electric heater is rated 1000W - 200V. Calculate [2]  
(i) The resistance of the heating element and  
(ii) the current flowing through it.