

Assignment for HSC Examinees, 2022

Subject: Physics

Paper: 2nd

Subject Code: 175

Level: HSC

<p>different values of R_h (from 2 to 20). Determine the value of R_h from the graph for which the potential drop will be the maximum.</p> <p>d) Draw a graph of the produced heat across R_h per second for different values of R_h versus R_h, and determine the value of R_h from this graph for which the produced heat across R_h will be the maximum.</p> <p>e) Will there be any change in potential drop across R if the circuit of fig-2 is connected with AB part of fig-1 – give logic by doing mathematical analysis.</p> <p>f) In the connected state of the circuit of fig-2 with AB part of fig-1, is it possible to increase the temperature of 5 kg water for the current flow of 5s? How much resistance is required to increase the temperature of water in half of the previous time?</p>	
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Marks Obtained	Comments
13-16	Excellent
11-12	Very good
8-10	Good
Less than 8	Needs Improvement