



Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005 Ph. No.: +91-744-2777777, 2777700 | FAX No.: +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029
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54. In the given figure the total charge stored in the combination of capacitors is 100 µC The value of 'x' is



 $R_{eq} = \frac{1}{\sqrt{2}}R \implies \frac{(R_{eq})\text{sphere}}{(R_{eq})\text{cylinder}} = \frac{\sqrt{\frac{2}{5}}}{\frac{1}{\sqrt{2}}} = \frac{2}{\sqrt{5}}$ 

### **Resonance Eduventures Ltd.**

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![](_page_11_Figure_0.jpeg)

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![](_page_12_Figure_0.jpeg)

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![](_page_13_Picture_0.jpeg)