



PHYSICS

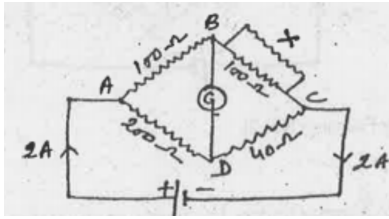
BOOKS - PUNJAB BOARD PREVIOUS YEAR PAPERS

Electrical Measurements

Exercise

1. The given Wheatstone Bridge shows no deflection in the galvanometer joined between

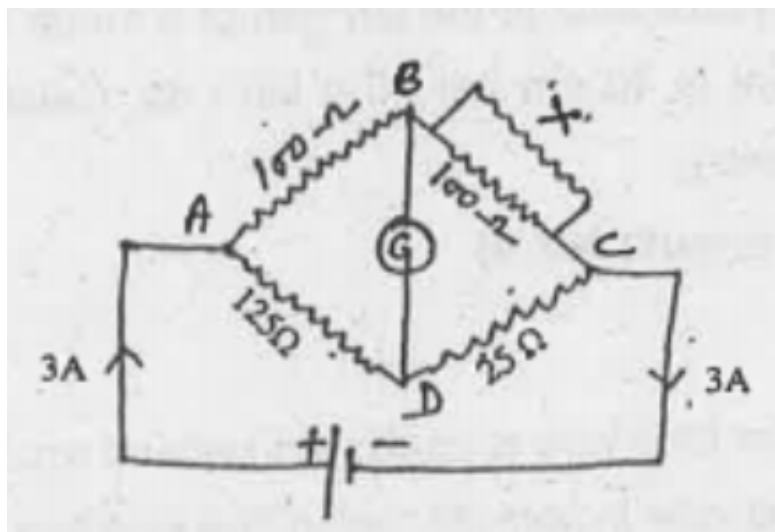
the points B and D. Calculate the value of 'X'.



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2. The given Wheatstone Bridge shows no deflection in galvanometer joined between the

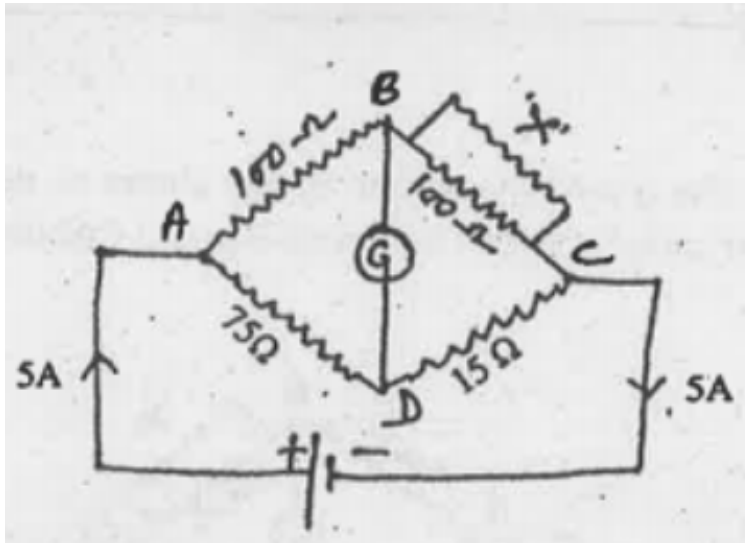
points B and D. Calculate the value of 'X'.



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3. The given Wheatstone Bridge shows no deflection in the galvanometer joined between

the points B and D. Calculate the value of 'X'.



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4. In a metre bridge, two unknown resistances R and X when connected in two gaps, give a

null point at 40 cm from one end. What is the ratio of R and X ?



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5. The resistance in the left gap of a metre bridge is 10Ω and the balance point is 40 cm from the left end. Calculate the value of unknown resistance.



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6. A 5m long wire is used with uniform area of cross-section and 50 ohm resistance in potentiometer. The wire is connected in series with a battery of 10V along with external resistance 450ohm. If unknown emf E is balanced at 4m length of wire, find potential gradient of potentiometer wire and value of unknown emf



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7. Write one use of metre bridge.



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8. Write one use of potentiometer.



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9. Write the use of electrical cell in a circuit.



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10. What is the principle of Wheatstone bridge for determining an unknown resistance ? How is it realised in actual practice in the laboratory?



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11. Explain how will you compare the e.m.f's of two cells by a potentiometer.



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12. State and explain Kirchhoff's law of electric circuits.



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13. Draw a circuit diagram for the comparison of e.m.f. of two primary cells using a potentiometer.



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14. State and explain Kirchhoff's law of electric circuits.



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15. State and explain Kirchhoff's law of electric circuits.



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16. Draw diagram of a Wheatstone bridge and by using Kirchhoff's Laws derive the condition for balance of Wheatstone bridge.



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17. With the help of a circuit diagram, explain how a metre bridge is used to find the unknown resistance of a given wire.



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18. Draw diagram of a Wheatstone bridge and by using Kirchhoff's Laws derive the condition for balance of Wheatstone bridge.



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19. Write statement of Kirchhoff's First and Second Law only.



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20. Draw diagram of a Wheatstone bridge and by using Kirchhoff's Laws derive the condition for balance of Wheatstone bridge.



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21. Explain how will you compare the e.m.f's of two cells by a potentiometer.



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22. With the help of a circuit diagram, explain how a metre bridge is used to find the unknown resistance of a given wire.



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23. Draw diagram of a Wheatstone bridge and by using Kirchhoff's Laws derive the condition for balance of Wheatstone bridge.



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24. Explain how will you compare the e.m.f's of two cells by a potentiometer.



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25. Define the term 'Resistivity' and electrical 'conductivity' and state their S.I. units.



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26. By which material is a potentiometer wire normally made and why?



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27. With the help of circuit diagram explain how a metre bridge can be used to compare two unknown resistances.



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28. Draw diagram of a Wheatstone bridge and by using Kirchhoff's Laws derive the condition for balance of Wheatstone bridge.



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29. State and explain Kirchhoff's 1st law



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30. What is potentiometer ? Discuss its principle.



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31. With the help of a circuit diagram, explain how a metre bridge is used to find the unknown resistance of a given wire.



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32. Explain how will you compare the e.m.f's of two cells by a potentiometer.



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33. What is the internal resistance of a cell ?
How it can be measured ?



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34. With the help of a circuit diagram, explain how a metre bridge is used to find the unknown resistance of a given wire.



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35. With the help of a circuit diagram, explain how a metre bridge is used to find the unknown resistance of a given wire.



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36. What is the internal resistance of a cell ?

How it can be measured ?



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37. Draw diagram of a Wheatstone bridge and by using Kirchhoff's Laws derive the condition for balance of Wheatstone bridge.



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38. Explain how will you compare the e.m.f's of two cells by a potentiometer.



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39. Explain two methods to increase sensitivity of potentiometer



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40. Define internal resistance of a cell and find an expression for it.



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41. Draw a circuit diagram for the comparison of e.m.f. of two primary cells using a potentiometer.



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42. Draw diagram of a Wheatstone bridge and by using Kirchhoff's Laws derive the condition for balance of Wheatstone bridge.



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43. Draw diagram of a Wheatstone bridge and by using Kirchhoff's Laws derive the condition for balance of Wheatstone bridge.



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44. What is the internal resistance of a cell ?

How it can be measured ?



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45. Draw diagram of a Wheatstone bridge and by using Kirchhoff's Laws derive the condition for balance of Wheatstone bridge.



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46. With the help of circuit diagram explain how a metre bridge can be used to compare two unknown resistances.



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47. Draw diagram of a Wheatstone bridge and by using Kirchhoff's Laws derive the condition for balance of Wheatstone bridge.



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48. State the principle of a potentiometer.



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49. Draw diagram of a Wheatstone bridge and by using Kirchhoff's Laws derive the condition for balance of Wheatstone bridge.



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