PARISHRAM PUBLICATIONS
PUNE

NAME of Student : _____

Subject : Physics   Class : XII
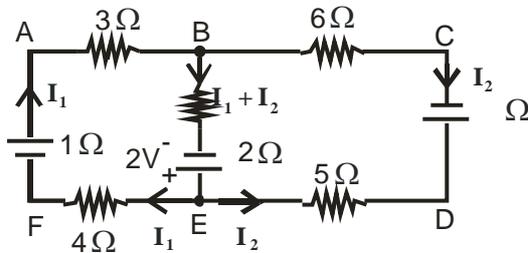
CBSE Board

Topic :- Current Electricity   Max. Marks :- 25

1. Explain the principle of potentiometer. **(2M)**

2. State and explain Kirchhoff's law for electrical circuit. **(3M)**

3. Explain with meat circuit diagram, how will you determine the unknown resistance by using a metre bridge. **(3M)**

4. State any two sources of errors in metre bridge experiment. Explain how they can be minimized. **(3M)**

5. Find the currents through different branches and P.D. across $10\,\Omega$ resistor in the network / circuit. What is the P.D. across. **(4M)**

6. Describe how potentiometer is used to compare the emf s of two cells lay **(5M)**
a] Direct method   b] combination method

7. With an unknown resistance x in the left gap and a resistance of $30\,\Omega$ is the right gap of meter-bridge the will point is obtained at 40 cm from the left end of the wire. **(5M)**
Find : (i) the unknown resistance and
(ii) The shift in the position of the will point.
a] when the resistance in both the gaps are increased by $15\,\Omega$
b] when the resistance in each gap is sheeted by a resistance of $-8\,\Omega$.