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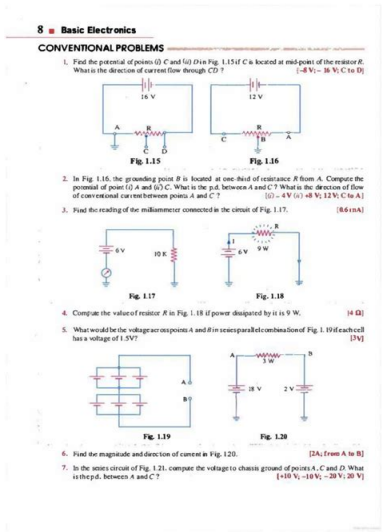

8 ■ Basic Electronics

CONVENTIONAL PROBLEMS

1. Find the potential of points (i) C and (ii) D in Fig. 1.15 if C is located at mid-point of the resistor R. What is the direction of current flow through CD ? [–8 V; – 16 V; C to D]

16 V 12 V

A R C D C R B A

Fig. 1.15 Fig. 1.16

2. In Fig. 1.16, the grounding point B is located at one-third of resistance R from A. Compute the potential of point (i) A and (ii) C. What is the p.d. between A and C ? What is the direction of flow of conventional current between points A and C ? [(i) – 4 V (ii) +8 V; 12 V; C to A]

3. Find the reading of the milliammeter connected in the circuit of Fig. 1.17. [0.6 mA]

6 V 10 K 6 V 9 W R

Fig. 1.17 Fig. 1.18

4. Compute the value of resistor R in Fig. 1.18 if power dissipated by it is 9 W. [4 Ω]

5. What would be the voltage across points A and B in series-parallel combination of Fig. 1.19 if each cell has a voltage of 1.5V? [3V]

A B 5 W 18 V 2 V

Fig. 1.19 Fig. 1.20

6. Find the magnitude and direction of current in Fig. 1.20. [2A; from A to B]

7. In the series circuit of Fig. 1.21, compute the voltage to chassis ground of points A, C and D. What is the p.d. between A and C ? [+10 V; –10 V; – 20 V; 20 V]

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