

## DPP – 9 (Current Electricity)

Video Solution on Website:-

<https://physicsaholics.com/home/courseDetails/55>

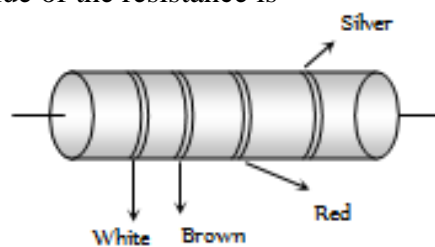
Video Solution on YouTube:-

<https://youtu.be/sVcmE7rv5VU>

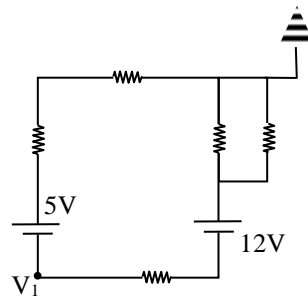
Written Solution on Website:-

<https://physicsaholics.com/note/notesDetailis/52>

- Q 1. In the figure a carbon resistor has bands of different colours on its body as mentioned in the figure. The value of the resistance is

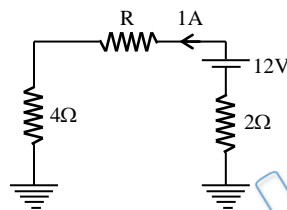


- (a)  $2.2 \text{ k}\Omega$                       (c)  $5.6 \text{ k}\Omega$   
 (b)  $3.3 \text{ k}\Omega$                       (d)  $9.1 \text{ k}\Omega$
- Q 2. The colour sequence in a carbon resistor is red, brown, orange and silver. The resistance of the resistor is
- (a)  $21 \times 10^3 \pm 10\%$                       (b)  $23 \times 10^1 \pm 10$   
 (c)  $21 \times 10^3 \pm 5\%$                       (d)  $12 \times 10^3 \pm 5\%$
- Q 3. What is the color code of  $33\text{k}\Omega \pm 5\%$  ?
- (a) Orange, red, red, gold  
 (b) Red, red, red, silver  
 (c) orange, orange, orange, gold  
 (d) Yellow, yellow, red, silver
- Q 4. A resistor has only three bands and all bands are red. Find minimum resistance of resistor ?
- (a) 2200 ohm  
 (b) 3300 ohm  
 (c) 1100 ohm  
 (d) 1760 ohm
- Q 5. In the circuit shown, each resistance is 2ohm. The potential  $V_1$  as indicated in the circuit, is equal to –



- (a) 11 V      (b) - 11V  
(c) 9 V      (d) - 9 V

Q 6. In the circuit shown in figure the value of R is-

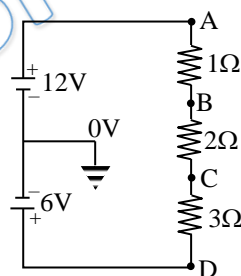


- (a) 8 ohm      (b) 10 ohm  
(c) 6 ohm      (d) 9 ohm

Q 7. What is the resistance of a carbon resistance which has bands of colours brown, black and brown

- (a) 100 Ω      (b) 1000 Ω  
(c) 10 Ω      (d) 1 Ω

Q 8. In the circuit diagram shown in Figure, the potentials of the points B, C and D are respectively-

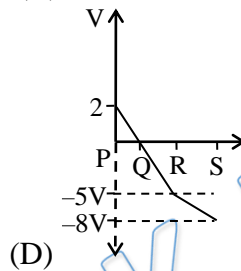
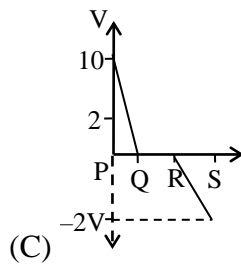
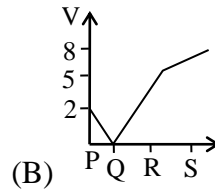
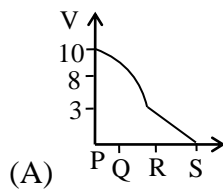
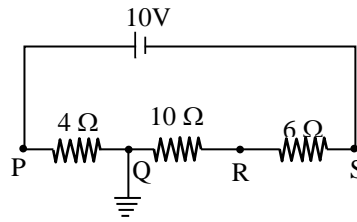


- (a) 12V, 10V, 6V      (c) 11V, 9V, 0V  
(b) 11V, 9V, 6V      (d) 12V, 10V, 0V

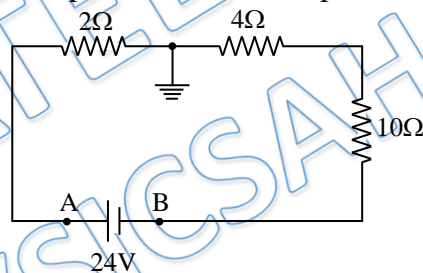
Q 9. A 24 volt battery of internal resistance of 4ohm is connected to a variable resistance. The rate of heat production in the resistor is maximum when current in the circuit is –

- (a) 2 A      (c) 4 A  
(b) 3 A      (d) 6 A

Q 10. The correct graph representation of potential along the branch PQRS is -



Q 11. In given circuit potential of point A & B are respectively -



- (a) + 24 V, zero      (c) + 24 V, - 24 V  
 (b) + 3V, - 21 V      (d) - 3V, + 21 V



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## Answer Key

<b>Q.1 d</b>	<b>Q.2 a</b>	<b>Q.3 c</b>	<b>Q.4 d</b>	<b>Q.5 d</b>
<b>Q.6 c</b>	<b>Q.7 a</b>	<b>Q.8 b</b>	<b>Q.9 b</b>	<b>Q.10 d</b>
<b>Q.11 b</b>				