

Unit 4 - Week 2

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Week 2 Assignment 2

The due date for submitting this assignment has passed. **Due on 2019-08-21, 23:59 IST.**
As per our records you have not submitted this assignment.

1) The value of dependent voltage source and current flowing through 4Ω resistor is- 1 point

a. 5 V, 0.75 A
 b. 5 V, 1.75 A
 c. -5 V, 0.75 A
 d. -5 V, 1.75 A

a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0
Accepted Answers: b.

2) In the figure shown, if $n=100$ and each resistance $R_1=R_2=R_3\dots R_n=2\Omega$ then the voltage across 100th resistor will be- 1 point

a. 0 V
 b. 0.5 V
 c. 1 V
 d. 1.5 V

a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0
Accepted Answers: b.

3) Current through 1Ω resistor will be- 1 point

a. 7.5 A
 b. Infinity
 c. 0
 d. 2.5 A

a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0
Accepted Answers: c.

4) For the given circuit, the output voltage V_0 can be written in terms of V as- 1 point

a. $V_0 = V \frac{R_2}{R_1 + R_2}$
 b. $V_0 = V \frac{R_L}{R_1 + R_L}$
 c. $V_0 = V \frac{(R_2 + R_L)(R_2 R_L)}{R_1 + (R_2 + R_L)}$
 d. $V_0 = V \frac{(R_2 R_L)(R_2 + R_L)}{R_1 + (R_2 + R_L)}$

a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0
Accepted Answers: a.

5) The equivalent resistance for the given network across given terminal will be- 1 point

a. 1.65-1.69 Ω
 b. 1.70-1.75 Ω
 c. 1.30-1.35 Ω
 d. 1.36-1.40 Ω

a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0
Accepted Answers: c.

6) The voltage difference between A and D is- 1 point

a. 31 V
 b. -9 V
 c. 11 V
 d. -11 V

a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0
Accepted Answers: a.

7) The current through 4Ω resistance in the circuit given will be- 1 point

a. 4 A
 b. 8 A
 c. 12 A
 d. 16 A

a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0
Accepted Answers: a.

8) What will be the current flowing through branch AB? 1 point

a. 10 A
 b. 4 A
 c. 5 A
 d. 8 A

a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0
Accepted Answers: c.

9) For the given circuit, the voltage across the current source will be- 1 point

a. 40 V
 b. 20 V
 c. 80 V
 d. 100 V

a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0
Accepted Answers: a.

10) The voltage across 5Ω branch will be- 1 point

a. 60.0-62.5 V
 b. 62.6-65.0 V
 c. 65.1-67.5 V
 d. 67.6-70.0 V

a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0
Accepted Answers: b.

11) From the given circuit, the amount of current that will flow through 2Ω towards 50V source will be- 1 point

a. 16 to 17 A
 b. -16 to -17 A
 c. 9 to 10 A
 d. -9 to -10 A

a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0
Accepted Answers: a.

12) What will be the voltage across 5Ω in the given circuit? 1 point

a. 2.5-2.7 V
 b. 12.5-13.5 V
 c. 17.5-18.5 V
 d. 8.6-9.6 V

a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0
Accepted Answers: b.