

IDP Questions Creation

Name:

Roll no:

Code : TJKZMLAZFS

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to learn solving these questions.

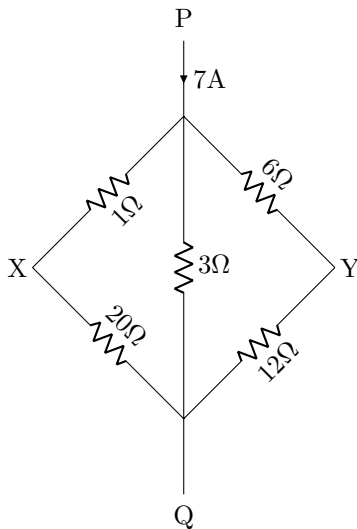


1 Power Systems

1. Two resistances R_1 and R_2 are connected in series.
What is the equivalent resistance ?

A. 86.00 Ω
B. 33.00 Ω
C. 53.00 Ω
D. 20.34 Ω

2. Find the potential difference between P and Q.



A. 3.06
B. 2.29

C. 16.04

D. 0.44

3. A transformer has its maximum efficiency of 98% at 25 kVA at upf. During the day it is loaded as follows:
12 hours : 1 kW at pf 0.5 lag
6 hours : 6 kW at pf 0.5 lag
6 hours : 14 kW at pf 0.5 lag

Find the all day efficiency of the transformer

A. 47.004 %

B. 5.993 %

C. -76.915 %

D. 94.007 %

4. A transformer has its maximum efficiency of 98% at 26 kVA at upf. During the day it is loaded as follows:
12 hours : 4 kW at pf 0.6 lag
6 hours : 9 kW at pf 0.7 lag
6 hours : 17 kW at pf 0.4 lag

Find the all day efficiency of the transformer

A. 94.787 %

B. -50.181 %

C. 47.394 %

D. 5.213 %

5. Two resistances R_1 and R_2 are connected in series.
What is the equivalent resistance ?

A. 66.00 Ω

B. 35.00 Ω

C. 31.00 Ω

D. 16.44 Ω

6. A transformer has its maximum efficiency of 98% at 22 kVA at upf. During the day it is loaded as follows:
 12 hours : 6 kW at pf 0.5 lag
 6 hours : 8 kW at pf 0.6 lag
 6 hours : 19 kW at pf 0.4 lag
 Find the all day efficiency of the transformer

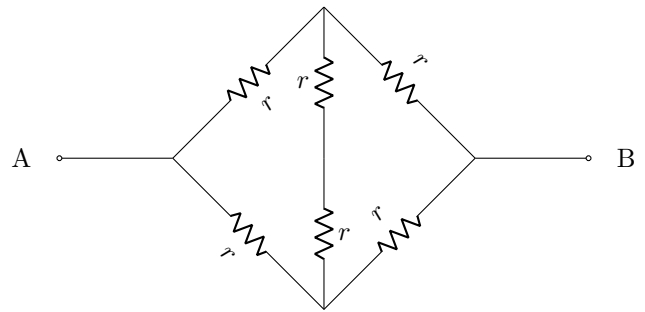
- A. -36.443 %
 B. 5.249 %
C. 94.751 %
 D. 47.376 %

2 Electric Circuits

7. What will be the current density of metal if a current of 46A is passed through a cross-sectional area of $0.1m^2$?

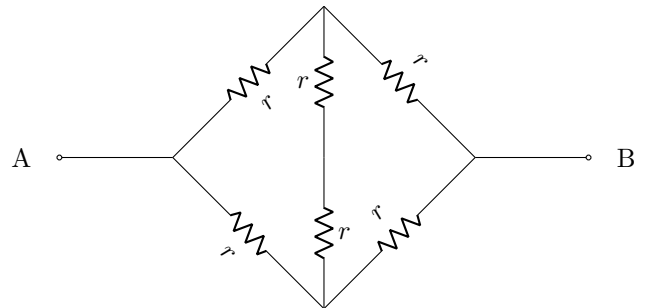
- A. $0.0022 A/m^2$
 B. $4.6000 A/m^2$
 C. $46000.0000 A/m^2$
D. $460.0000 A/m^2$

8. Find the equivalent resistance between the points A and B for $r = 182 \Omega$



- A. 0.005Ω
 B. 364.000Ω
C. 182.000Ω
 D. 728.000Ω

9. Find the equivalent resistance between the points A and B for $r = 443 \Omega$



- A. 0.002Ω
 B. 886.000Ω
C. 443.000Ω
 D. 1772.000Ω

* * * All the Best * * *