



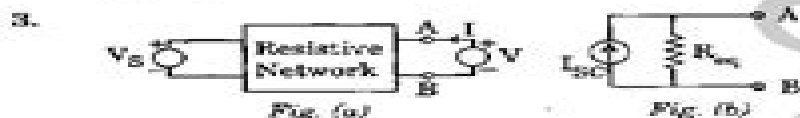
In the circuit shown, what is the current in the $1\ \Omega$ resistor?

- (a) 0 A
- (b) 2 A
- (c) 9 A
- (d) 21 A



For the network shown above, the Norton's equivalent current across AB is given by

- (a) 1 A
- (b) 2 A
- (c) 3 A
- (d) 4 A



For the circuit shown in Fig. (a), if $V_S = V_1$ volts and $V = 0$ volt, then $I = -5$ Amp; while for $V_S = 0$ volt and $V = 1$ volt, $I = 0.5$ Amp. What are the values of I_{SC} (Amps) and R_{eq} (Ohms) for Norton's equivalent between A and B as shown in Fig. (b)?

- (a) 2.5 and 5
- (b) 10 and 0.5
- (c) 5 and 2
- (d) -5 and 2

4. An iron-cored coil takes 4 A at a power factor of 0.5 when connected to a 200 V, 50 Hz supply. If the equivalent resistance due to copper loss is $20\ \Omega$, what is the equivalent resistance corresponding to the core loss?

- (a) 0 Ω
- (b) 5 Ω
- (c) 10 Ω
- (d) 15 Ω

5. Three identical impedances are connected first in star and then in delta to a 3-phase balanced supply. If the total power consumed by the load in the two connections are W_{star} and W_{delta} , what is the value of W_{delta} ?

- (a) W_{star}
- (b) $\sqrt{2} W_{star}$
- (c) $\sqrt{3} W_{star}$
- (d) $3 W_{star}$

6. The two-port matrix of an $n:1$ ideal transformer is $\begin{bmatrix} n & 0 \\ 0 & \frac{1}{n} \end{bmatrix}$. It describes the

- (a) Z-parameters
- (b) Y-parameters
- (c) ABCD-parameters
- (d) h-parameters



For the circuit shown, the value of R is so adjusted as to transfer the maximum power in $1\ \Omega$ resistor. What is the amount of power?

- (a) 1 W
- (b) 2 W
- (c) 4 W
- (d) 8 W

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